Figure 1

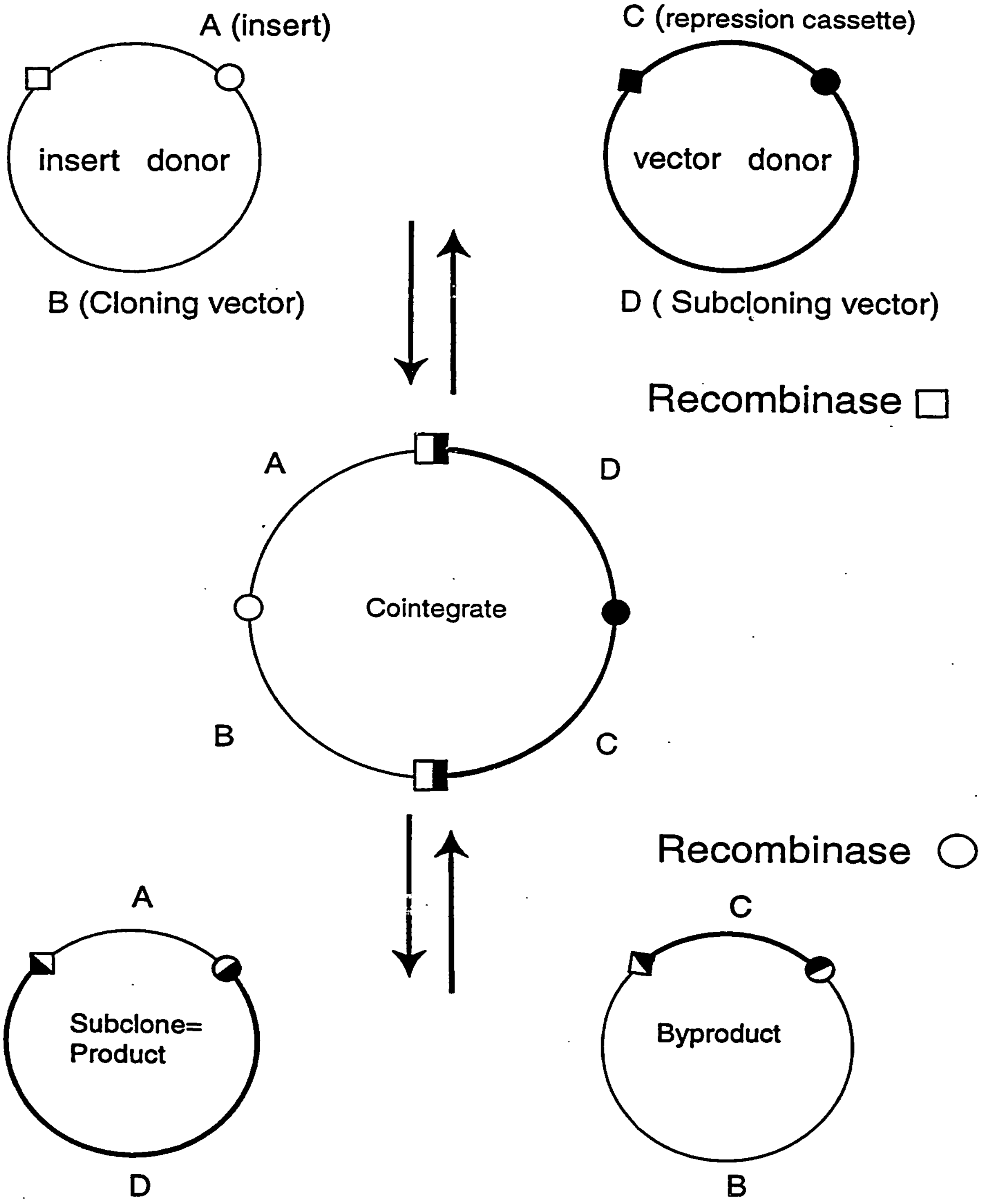

A (insert)
insert donor
B (Cloning vector)
C (repression cassette)
vector donor
D (Subcloning vector)
Recombinase □
A
D
Cointegrate
B
C
Recombinase ○
A
Subclone=
Product
D
C
Byproduct
B

Figure 2A

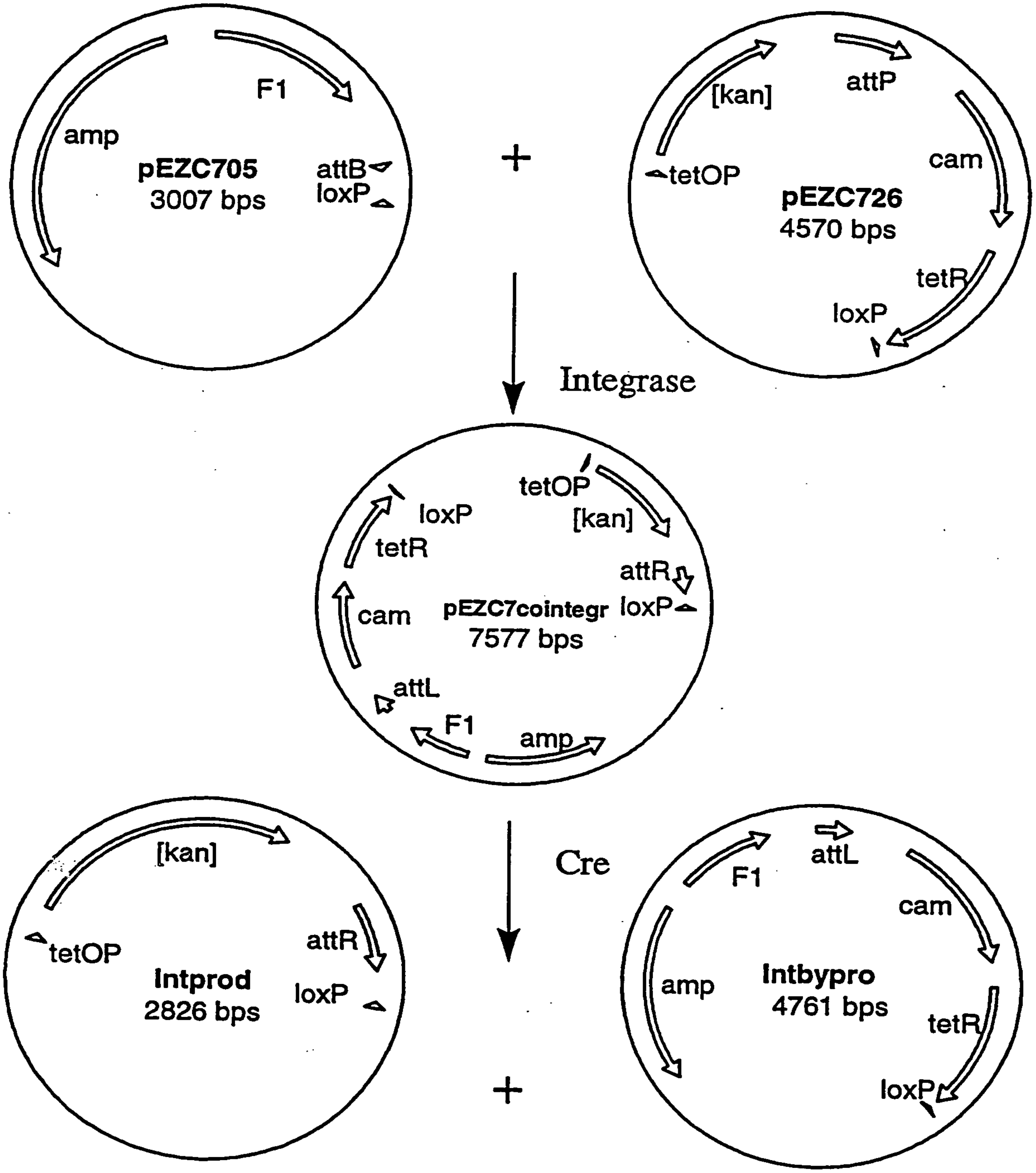

F1
amp
pEZC705
3007 bps
attB
loxP
+
[kan]
attP
tetOP
cam
pEZC726
4570 bps
tetR
loxP
Integrase
tetOP
loxP
[kan]
tetR
attR
cam
pEZC7cointegr
7577 bps
loxP
attL
F1
amp
Cre
[kan]
tetOP
attR
Intprod
2826 bps
loxP
+
F1
attL
cam
amp
Intbypro
4761 bps
tetR
loxP

Figure 2B

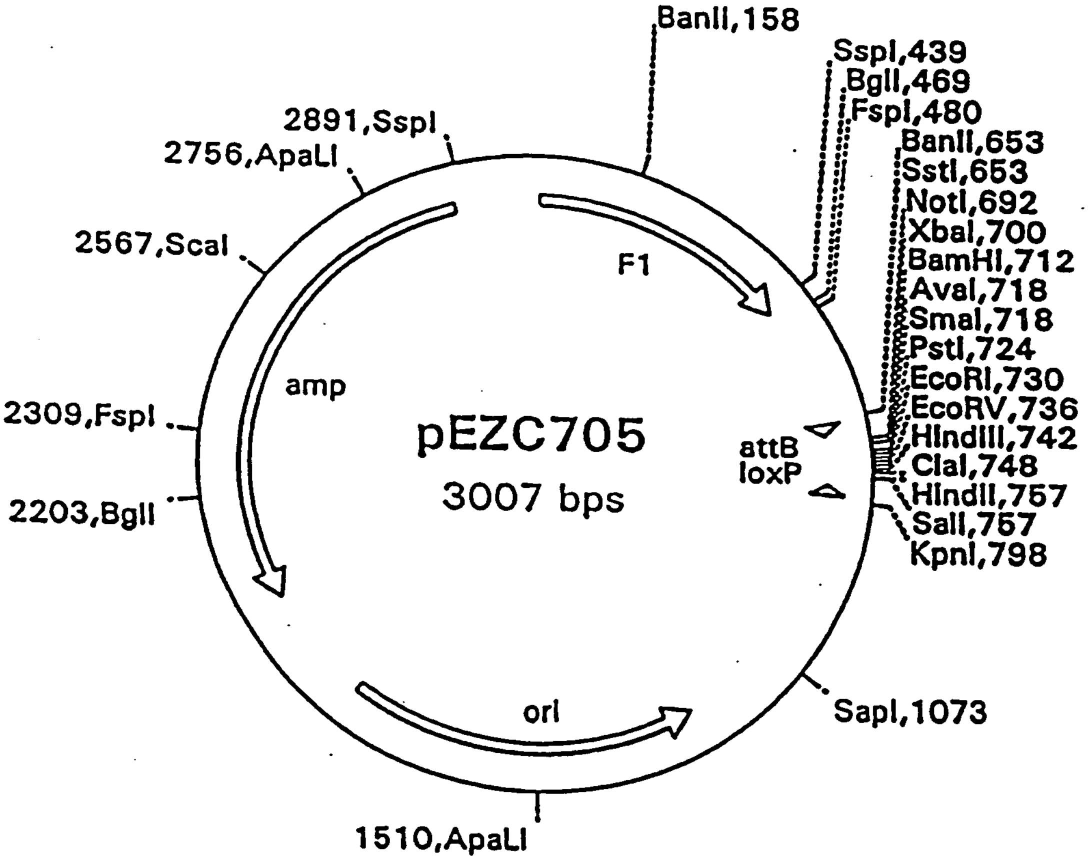

BanII,158
SspI,439
BglI,469
FspI,480
BanII,653
SstI,653
NotI,692
XbaI,700
BamHI,712
AvaI,718
SmaI,718
PstI,724
EcoRI,730
EcoRV,736
HindIII,742
ClaI,748
HindII,757
SalI,757
KpnI,798
SapI,1073
1510,ApaLI
2203,BglI
2309,FspI
2567,ScaI
2756,ApaLI
2891,SspI
F1
amp
ori
attB
loxP
pEZC705
3007 bps

Figure 2C

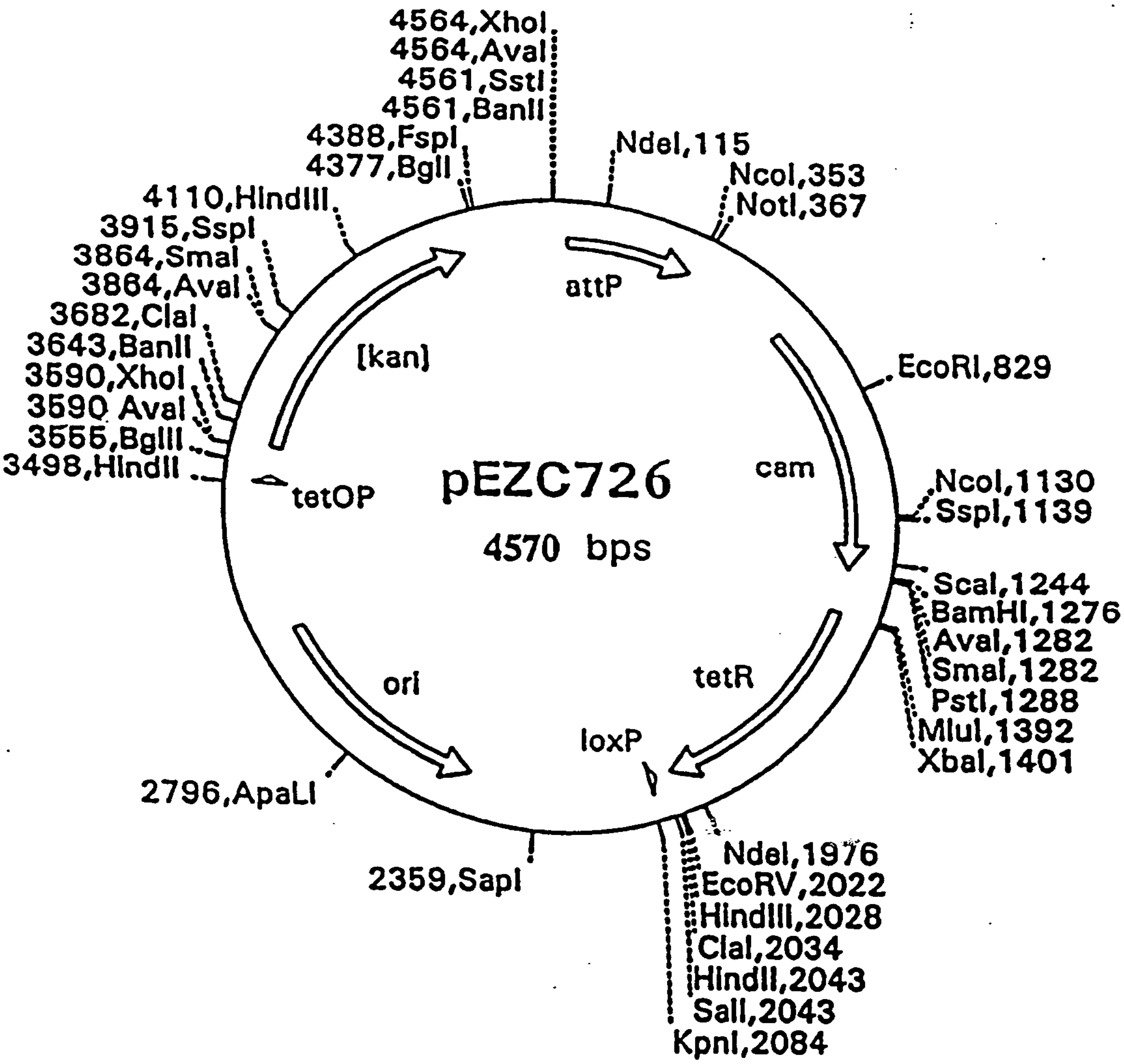
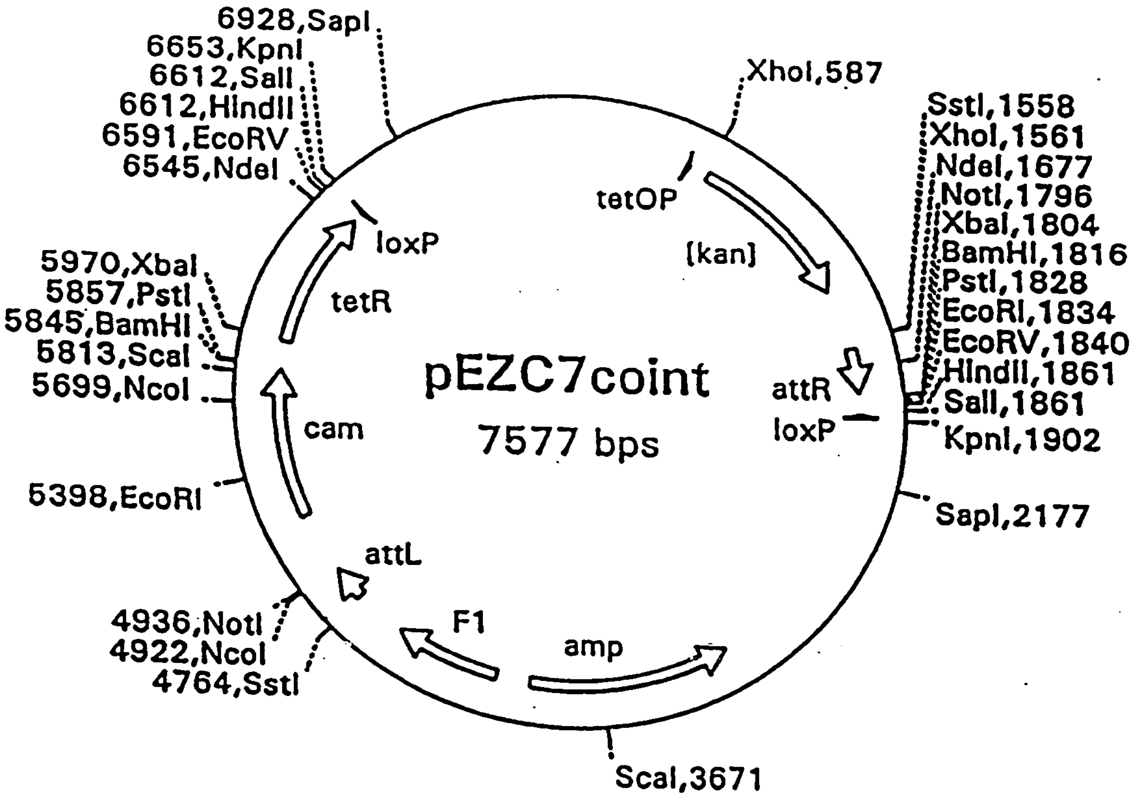

4564,XhoI
4564,AvaI
4561,SstI
4561,BanII
4388,FspI
4377,BglI
4110,HindIII
3915,SspI
3864,SmaI
3864,AvaI
3682,ClaI
3643,BanII
3590,XhoI
3590 AvaI
3555,BglII
3498,HindII
NdeI,115
NcoI,353
NotI,367
EcoRI,829
NcoI,1130
SspI,1139
ScaI,1244
BamHI,1276
AvaI,1282
SmaI,1282
PstI,1288
MluI,1392
XbaI,1401
NdeI,1976
EcoRV,2022
HindIII,2028
ClaI,2034
HindII,2043
SalI,2043
KpnI,2084
2359,SapI
2796,ApaLI
attP
[kan]
cam
tetOP
pEZC726
4570 bps
ori
tetR
loxP

Figure 2D



6928,SapI
6653,KpnI
6612,SalI
6612,HindII
6591,EcoRV
6545,NdeI
XhoI,587
SstI,1558
XhoI,1561
NdeI,1677
NotI,1796
XbaI,1804
BamHI,1816
PstI,1828
EcoRI,1834
EcoRV,1840
HindII,1861
SalI,1861
KpnI,1902
SapI,2177
tetOP
[kan]
loxP
tetR
5970,XbaI
5857,PstI
5845,BamHI
5813,ScaI
5699,NcoI
pEZC7coint
7577 bps
attR
loxP
cam
5398,EcoRI
attL
4936,NotI
4922,NcoI
4764,SstI
F1
amp
ScaI,3671

Figure 2E

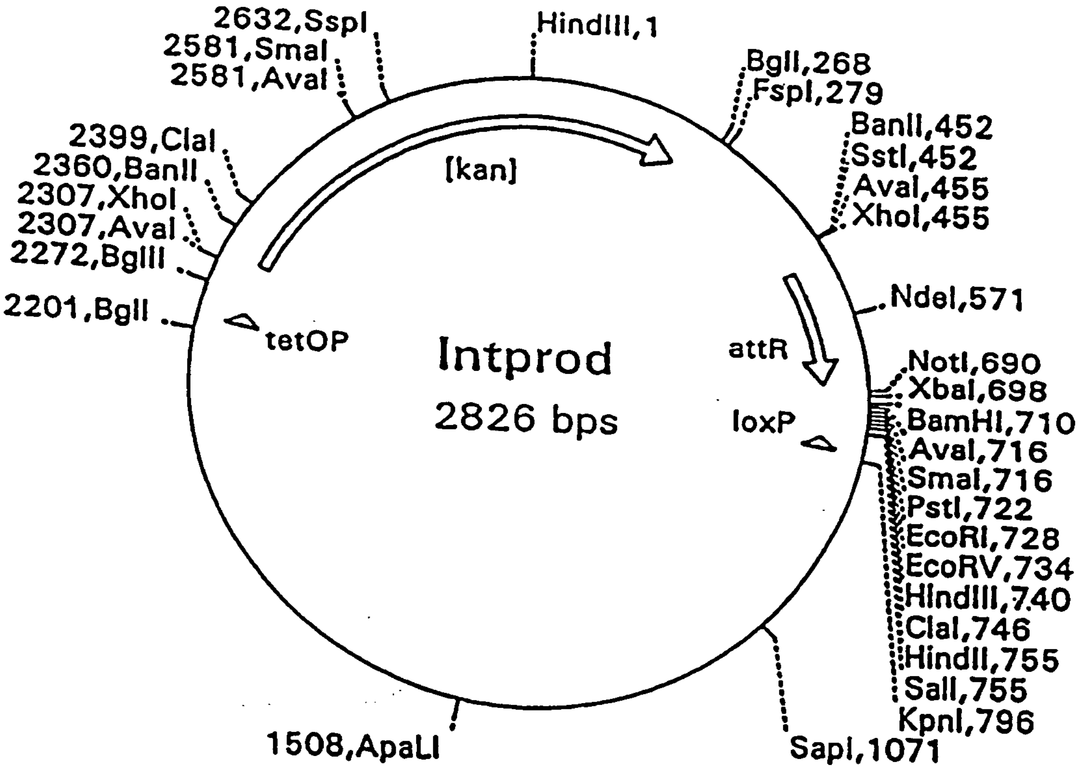

HindIII,1
BglI,268
FspI,279
BanII,452
SstI,452
AvaI,455
XhoI,455
NdeI,571
NotI,690
XbaI,698
BamHI,710
AvaI,716
SmaI,716
PstI,722
EcoRI,728
EcoRV,734
HindIII,740
ClaI,746
HindII,755
SalI,755
KpnI,796
SapI,1071
1508,ApaLI
2201,BglI
2272,BglII
2307,AvaI
2307,XhoI
2360,BanII
2399,ClaI
2581,AvaI
2581,SmaI
2632,SspI
[kan]
tetOP
Intprod
2826 bps
attR
loxP

Figure 2F

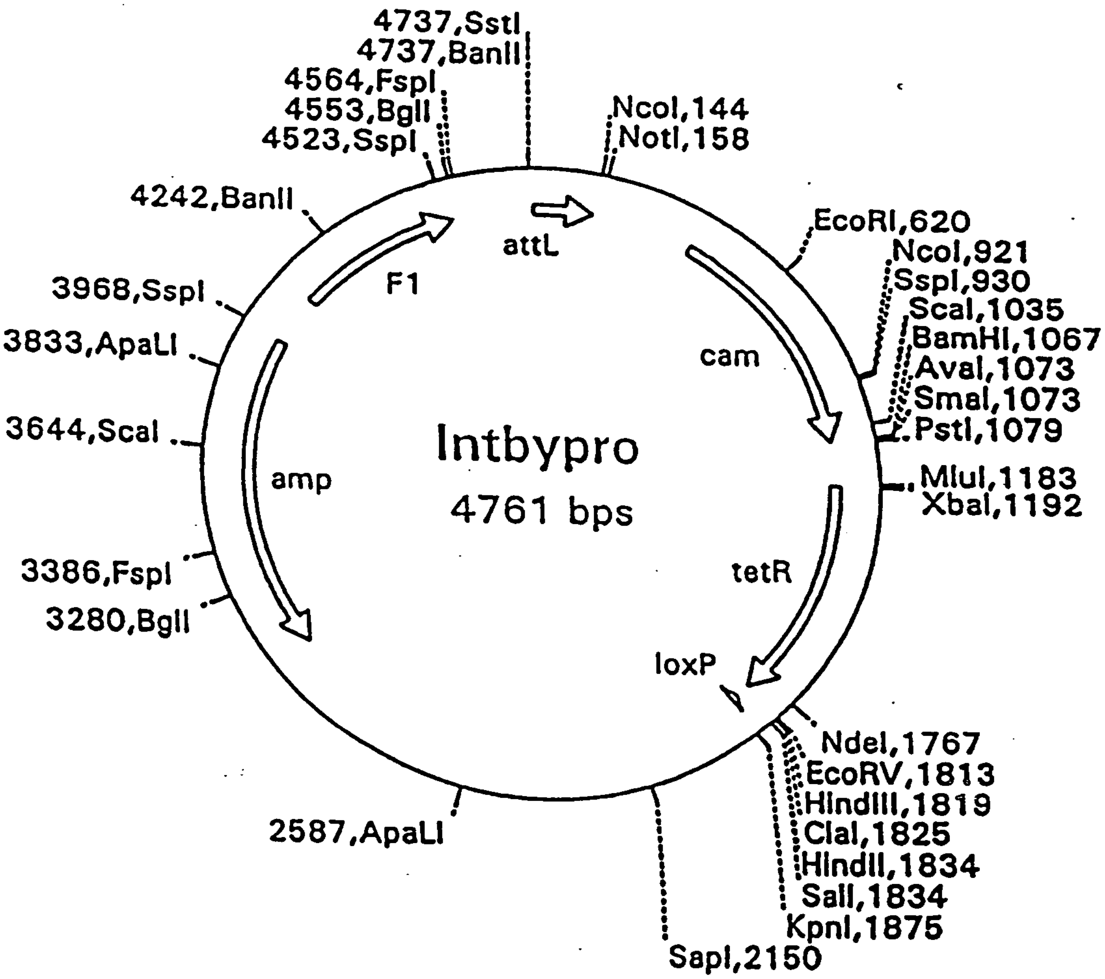

4737,SstI
4737,BanII
4564,FspI
4553,BglI
4523,SspI
4242,BanII
3968,SspI
3833,ApaLI
3644,ScaI
3386,FspI
3280,BglI
2587,ApaLI
NcoI,144
NotI,158
EcoRI,620
NcoI,921
SspI,930
ScaI,1035
BamHI,1067
AvaI,1073
SmaI,1073
PstI,1079
MluI,1183
XbaI,1192
NdeI,1767
EcoRV,1813
HindIII,1819
ClaI,1825
HindII,1834
SalI,1834
KpnI,1875
SapI,2150
attL
F1
cam
amp
tetR
loxP
Intbypro
4761 bps

Figure 3A

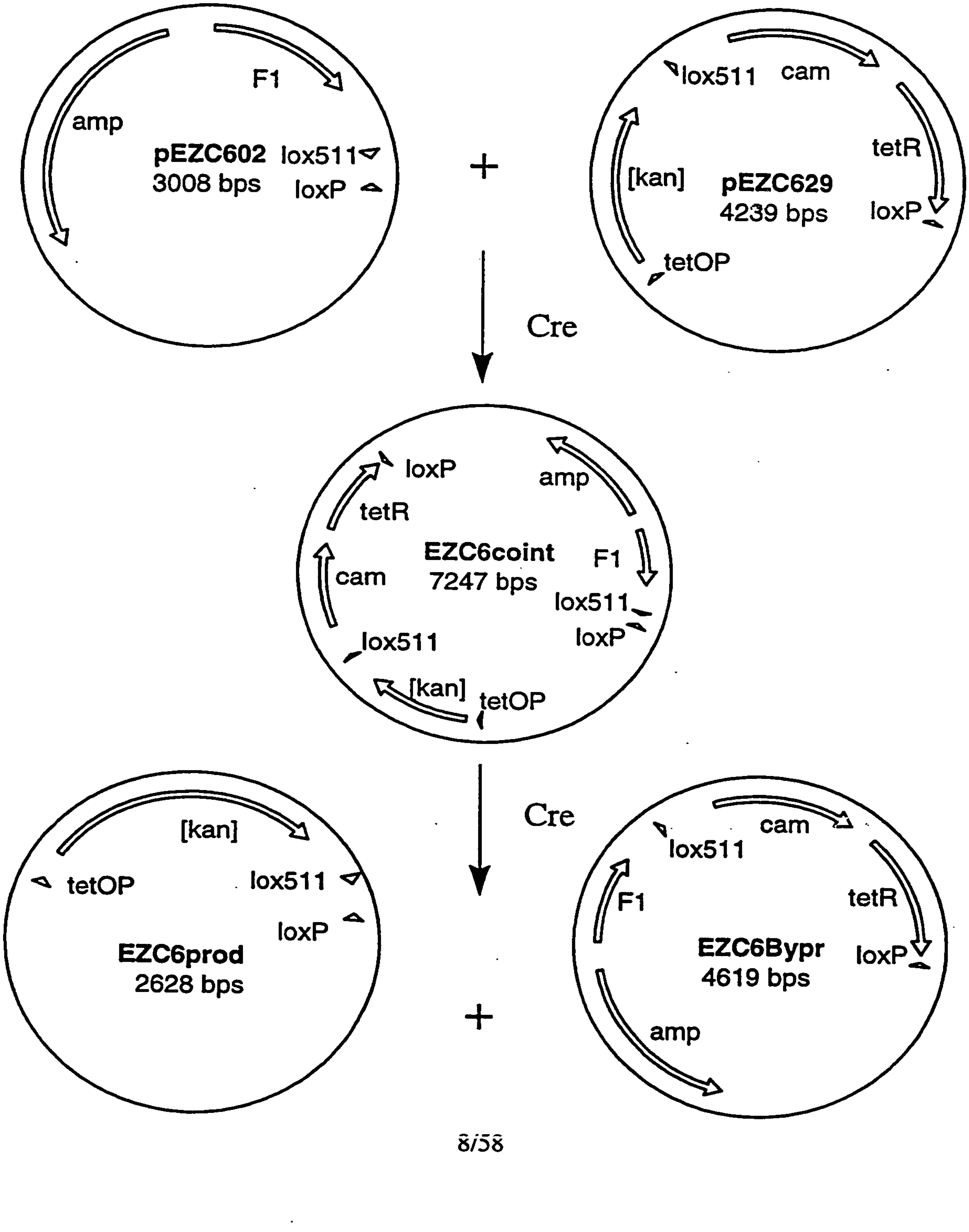

F1
amp
pEZC602
3008 bps
lox511
loxP
+
lox511
cam
tetR
[kan]
pEZC629
4239 bps
loxP
tetOP
Cre
loxP
amp
tetR
EZC6coint
7247 bps
F1
cam
lox511
loxP
lox511
[kan]
tetOP
Cre
[kan]
tetOP
lox511
loxP
EZC6prod
2628 bps
+
cam
lox511
F1
tetR
EZC6Bypr
4619 bps
loxP
amp

Figure 3B

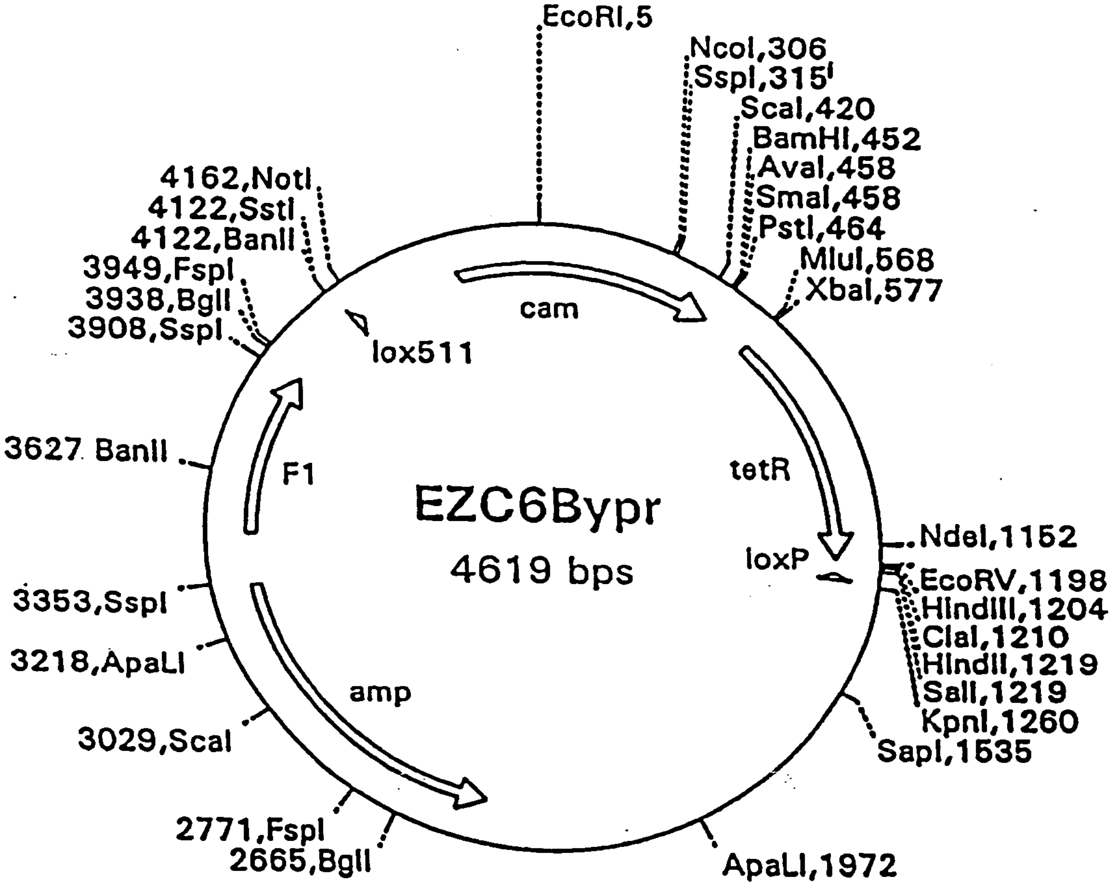

EcoRI,5
NcoI,306
SspI,315
ScaI,420
BamHI,452
AvaI,458
SmaI,458
PstI,464
MluI,568
XbaI,577
NdeI,1152
EcoRV,1198
HindIII,1204
ClaI,1210
HindII,1219
SalI,1219
KpnI,1260
SapI,1535
ApaLI,1972
2665,BglI
2771,FspI
3029,ScaI
3218,ApaLI
3353,SspI
3627 BanII
3908,SspI
3938,BglI
3949,FspI
4122,BanII
4122,SstI
4162,NotI
cam
lox511
tetR
F1
loxP
amp
EZC6Bypr
4619 bps

Figure 3C

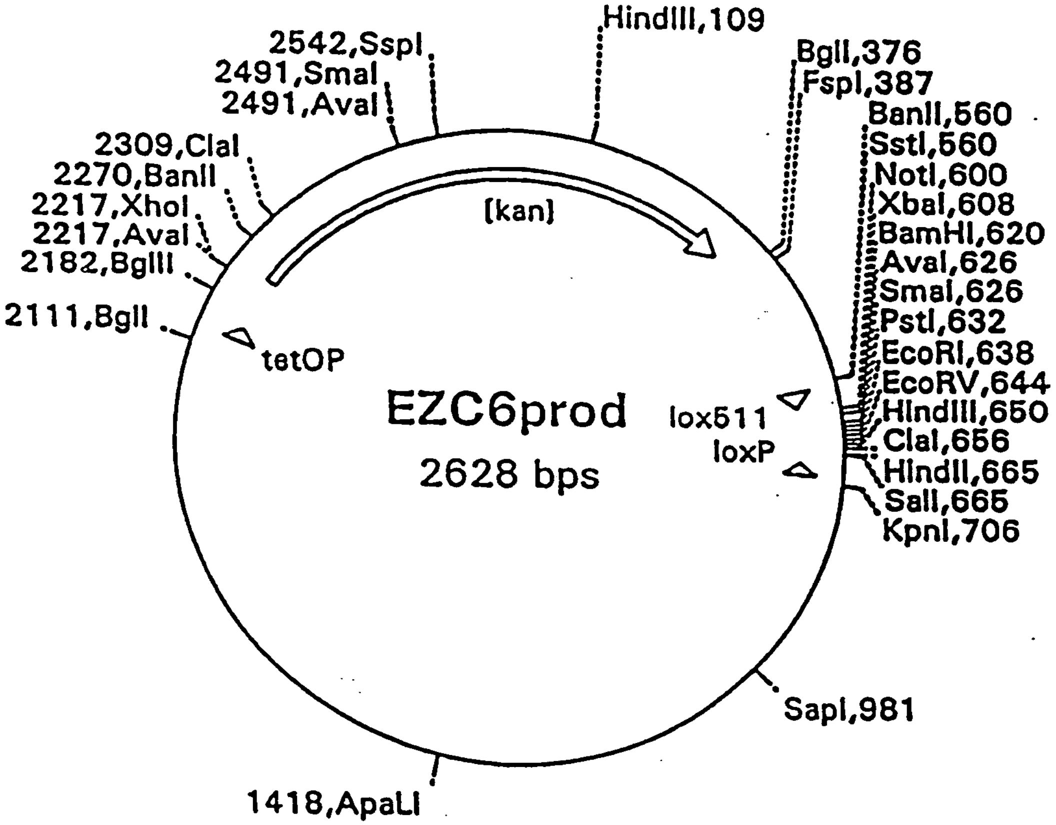

HindIII,109
BglI,376
FspI,387
BanII,560
SstI,560
NotI,600
XbaI,608
BamHI,620
AvaI,626
SmaI,626
PstI,632
EcoRI,638
EcoRV,644
HindIII,650
ClaI,656
HindII,665
SalI,665
KpnI,706
SapI,981
1418,ApaLI
2111,BglI
2182,BglII
2217,AvaI
2217,XhoI
2270,BanII
2309,ClaI
2491,AvaI
2491,SmaI
2542,SspI
[kan]
tetOP
lox511
loxP
EZC6prod
2628 bps

Figure 3D

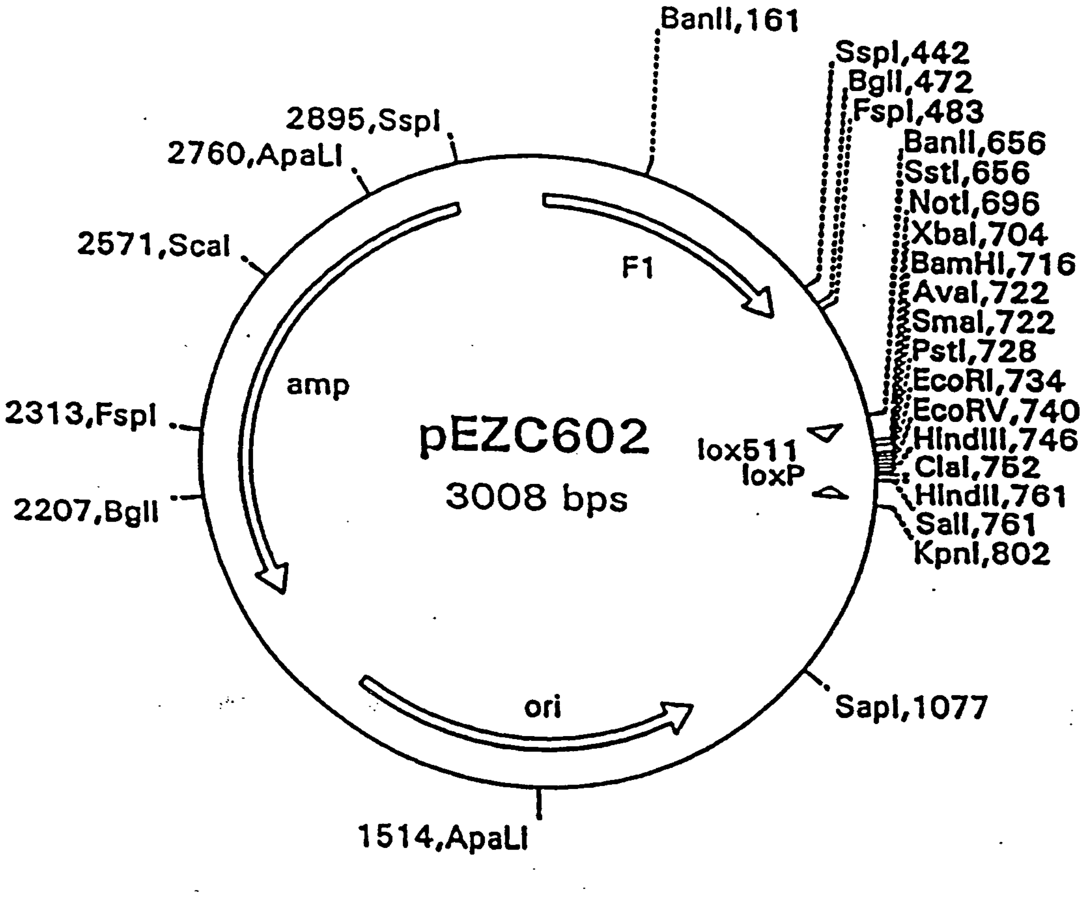

BanII,161
SspI,442
BglI,472
FspI,483
BanII,656
SstI,656
NotI,696
XbaI,704
BamHI,716
AvaI,722
SmaI,722
PstI,728
EcoRI,734
EcoRV,740
HindIII,746
ClaI,752
HindII,761
SalI,761
KpnI,802
SapI,1077
1514,ApaLI
2207,BglI
2313,FspI
2571,ScaI
2760,ApaLI
2895,SspI
F1
amp
ori
lox511
loxP
pEZC602
3008 bps

Figure 3E

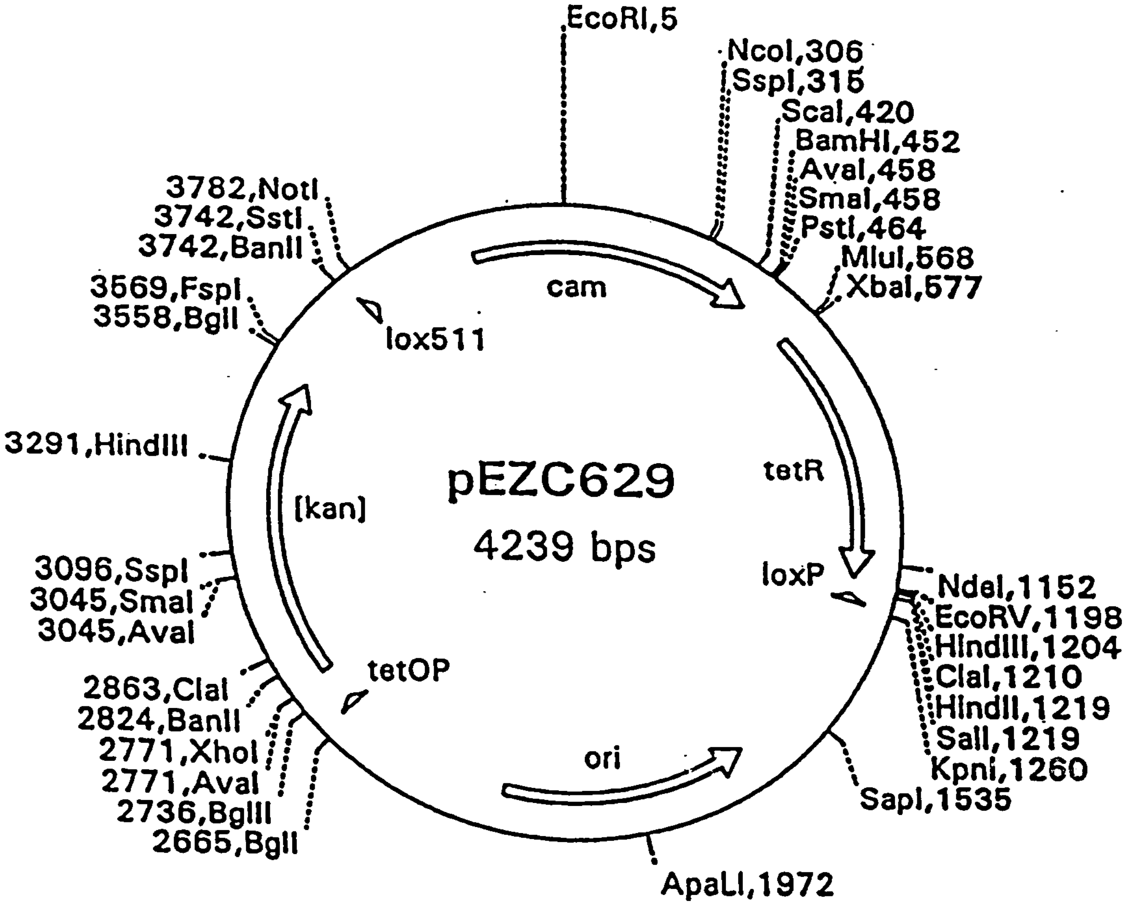

EcoRI,5
NcoI,306
SspI,315
ScaI,420
BamHI,452
AvaI,458
SmaI,458
PstI,464
MluI,568
XbaI,577
NdeI,1152
EcoRV,1198
HindIII,1204
ClaI,1210
HindII,1219
SalI,1219
KpnI,1260
SapI,1535
ApaLI,1972
2665,BglI
2736,BglII
2771,AvaI
2771,XhoI
2824,BanII
2863,ClaI
3045,AvaI
3045,SmaI
3096,SspI
3291,HindIII
3558,BglI
3569,FspI
3742,BanII
3742,SstI
3782,NotI
cam
tetR
loxP
ori
tetOP
[kan]
lox511
pEZC629
4239 bps

Figure 3F

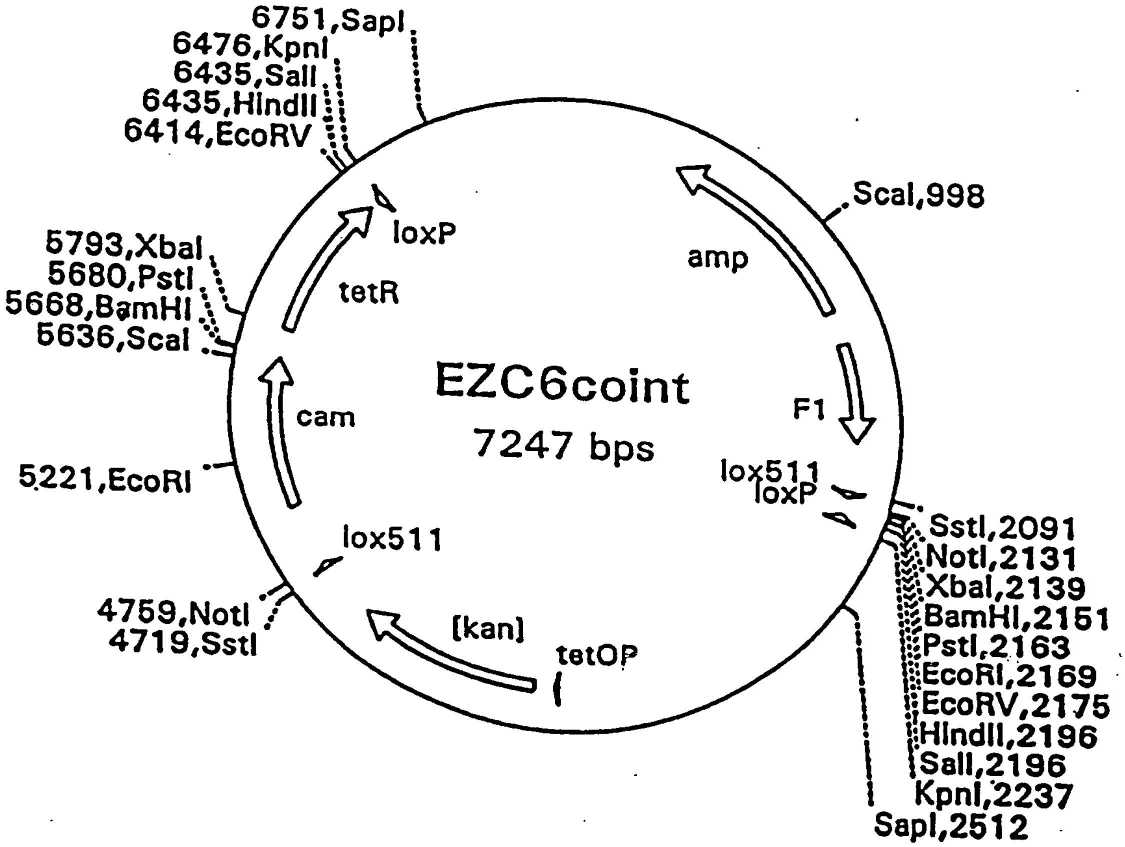

6751,SapI
6476,KpnI
6435,SalI
6435,HindII
6414,EcoRV
ScaI,998
5793,XbaI
5680,PstI
5668,BamHI
5636,ScaI
loxP
tetR
amp
EZC6coint
7247 bps
F1
cam
5221,EcoRI
lox511
loxP
SstI,2091
NotI,2131
XbaI,2139
BamHI,2151
PstI,2163
EcoRI,2169
EcoRV,2175
HindII,2196
SalI,2196
KpnI,2237
SapI,2512
lox511
4759,NotI
4719,SstI
[kan]
tetOP

Figure 4A

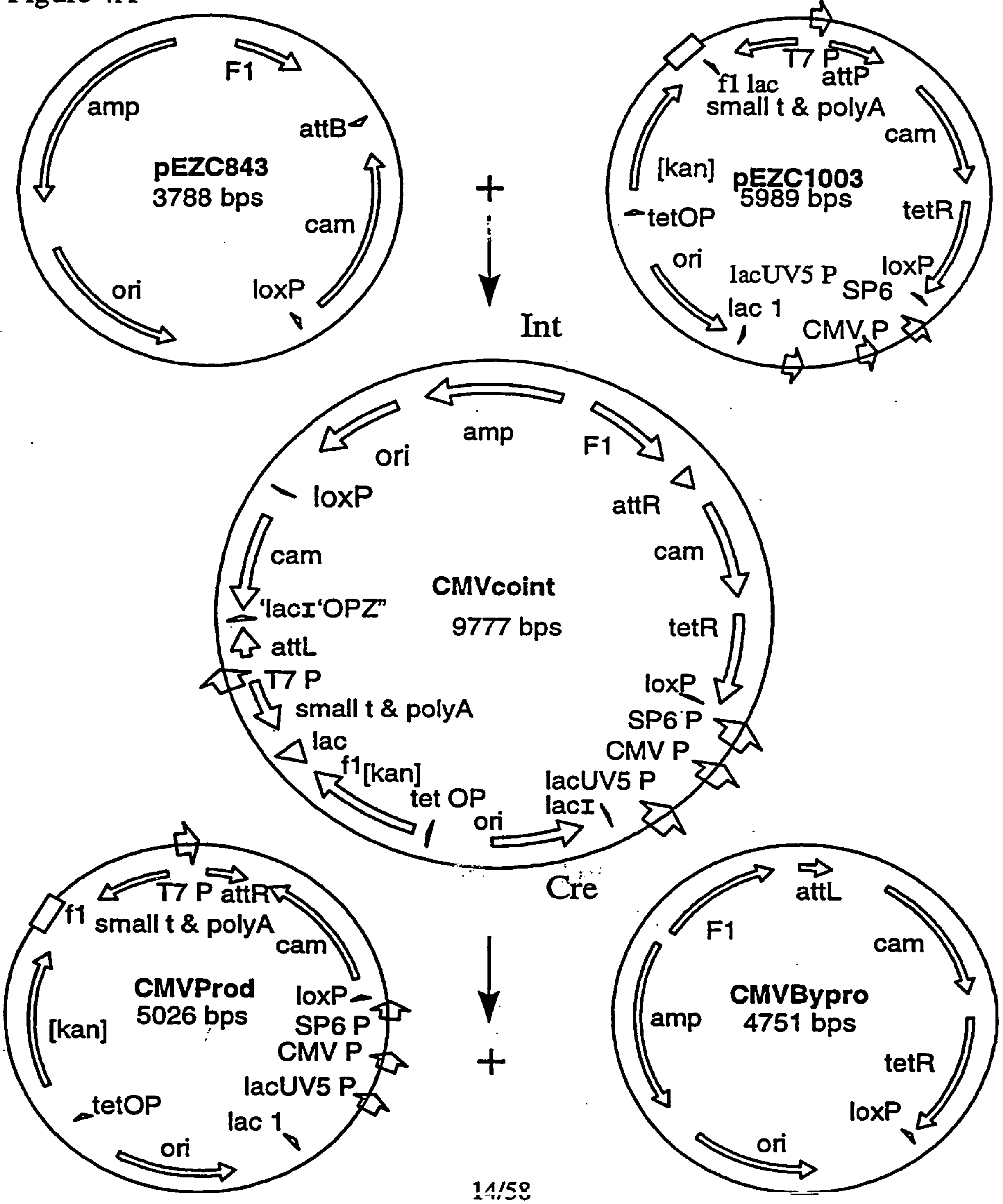

pEZC843
3788 bps
amp
F1
attB
cam
loxP
ori
+
Int
pEZC1003
5989 bps
T7 P
attP
f1 lac
small t & polyA
cam
[kan]
tetOP
tetR
ori
lacUV5 P
loxP
SP6
lac 1
CMV P
CMVcoint
9777 bps
amp
ori
F1
loxP
attR
cam
cam
'lacɪ'OPZ"
attL
tetR
T7 P
small t & polyA
loxP
SP6 P
lac
CMV P
f1[kan]
lacUV5 P
tet OP
lacɪ
ori
Cre
CMVProd
5026 bps
T7 P attR
f1
small t & polyA
cam
loxP
SP6 P
CMV P
[kan]
lacUV5 P
tetOP
lac 1
ori
+
CMVBypro
4751 bps
attL
F1
cam
amp
tetR
loxP
ori

Figure 4B

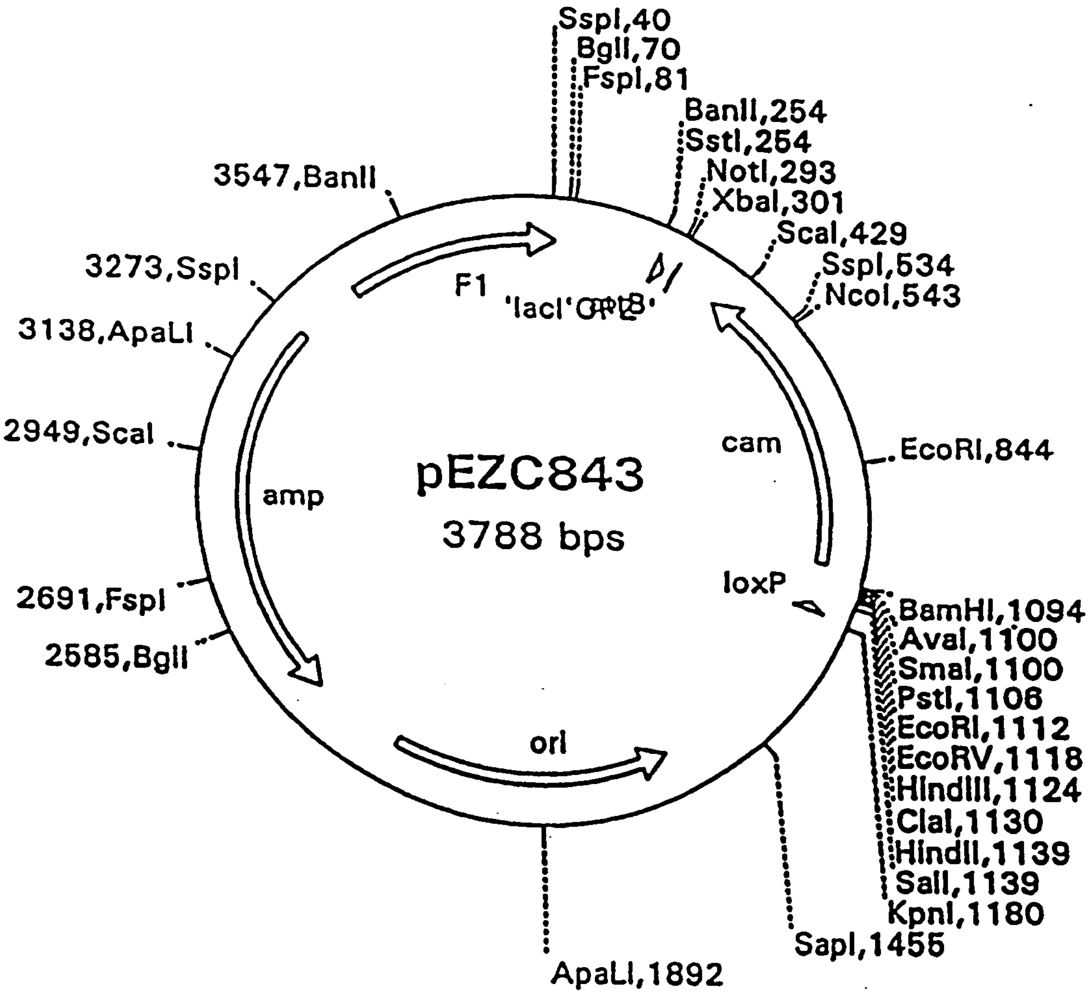

SspI,40
BglI,70
FspI,81
BanII,254
SstI,254
NotI,293
XbaI,301
ScaI,429
SspI,534
NcoI,543
EcoRI,844
BamHI,1094
AvaI,1100
SmaI,1100
PstI,1106
EcoRI,1112
EcoRV,1118
HindIII,1124
ClaI,1130
HindII,1139
SalI,1139
KpnI,1180
SapI,1455
ApaLI,1892
2585,BglI
2691,FspI
2949,ScaI
3138,ApaLI
3273,SspI
3547,BanII
F1
'lacI'OPLB'
cam
loxP
amp
ori
pEZC843
3788 bps

Figure 4C

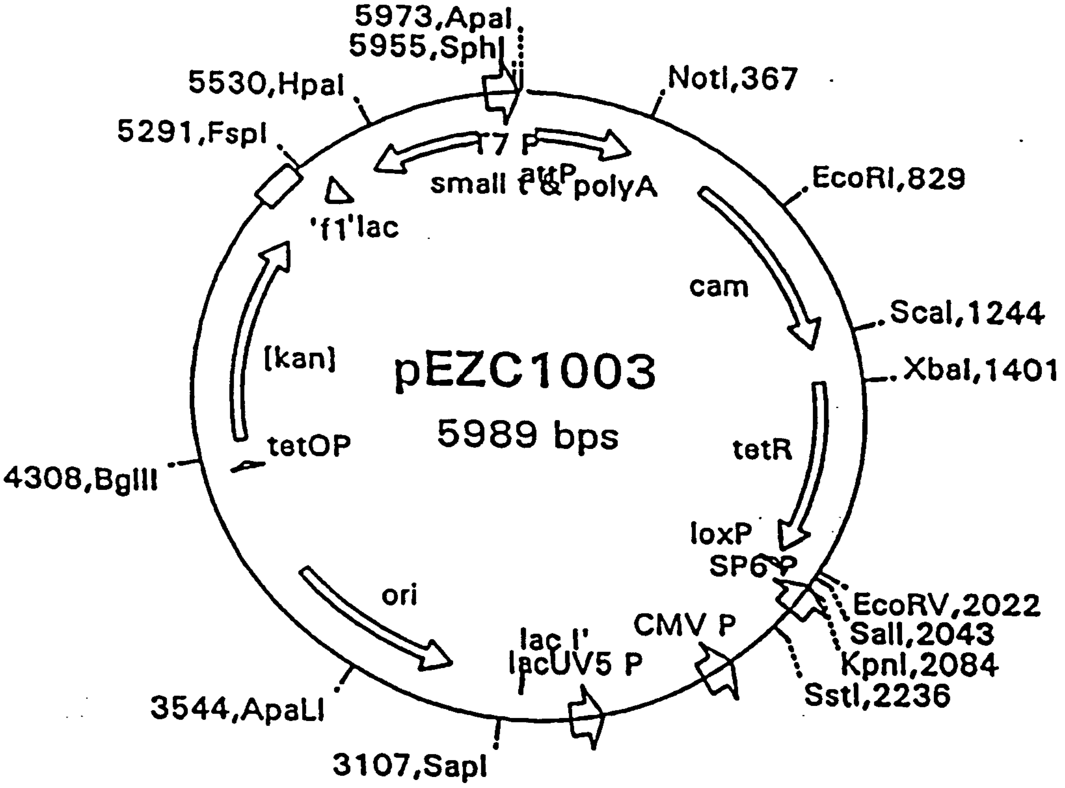

5973,ApaI
5955,SphI
5530,HpaI
5291,FspI
NotI,367
EcoRI,829
ScaI,1244
XbaI,1401
T7 P
attP
small t & polyA
'f1'lac
cam
[kan]
pEZC1003
5989 bps
tetR
tetOP
4308,BglII
loxP
SP6 P
EcoRV,2022
SalI,2043
KpnI,2084
SstI,2236
ori
CMV P
lac I'
lacUV5 P
3544,ApaLI
3107,SapI

Figure 4D

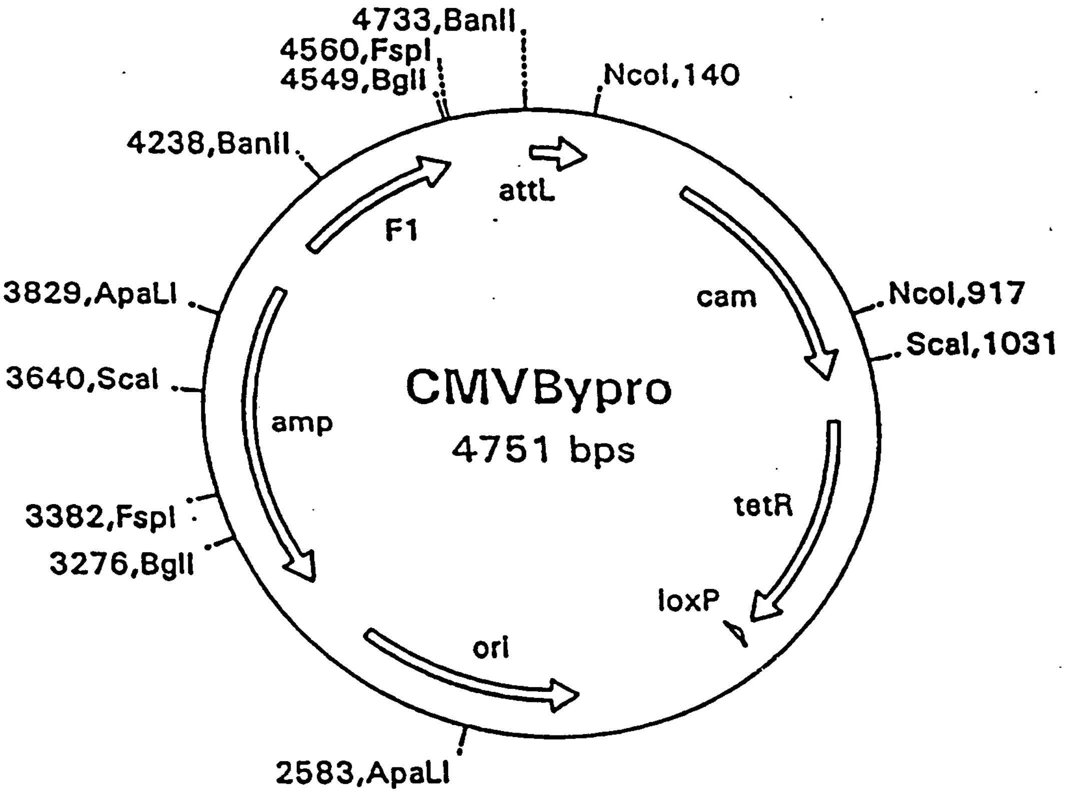
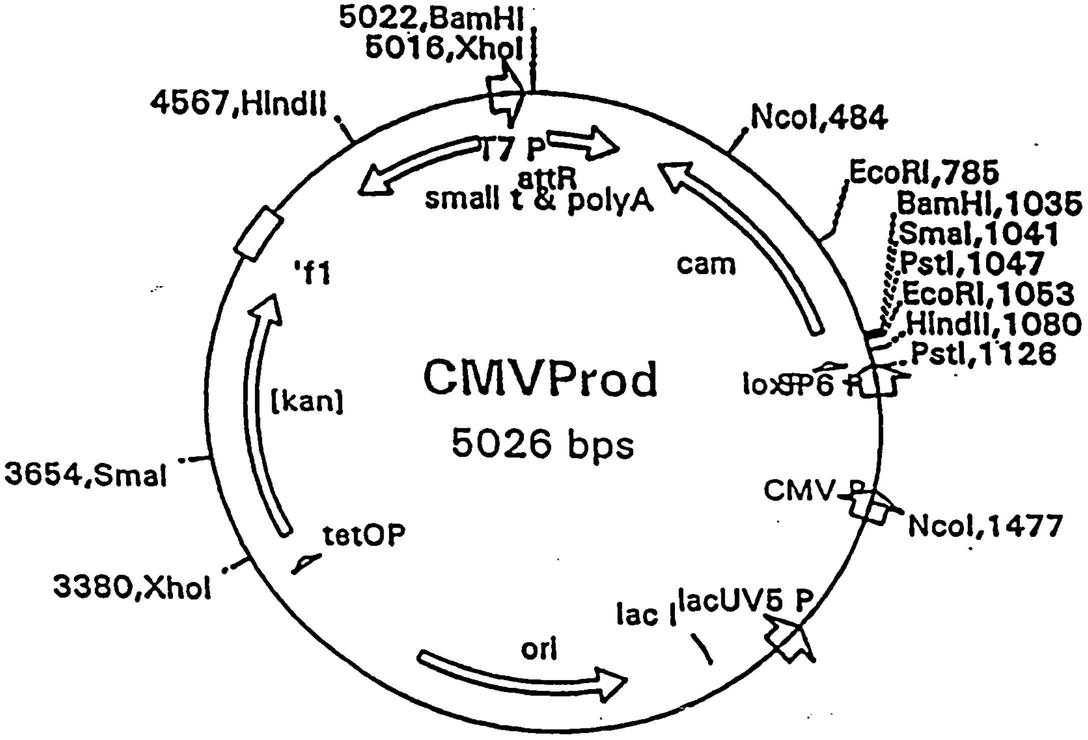

4733,BanII
4560,FspI
4549,BglI
NcoI,140
4238,BanII
attL
F1
3829,ApaLI
cam
NcoI,917
ScaI,1031
3640,ScaI
CMVBypro
4751 bps
amp
tetR
3382,FspI
3276,BglI
loxP
ori
2583,ApaLI

Figure 4E



5022,BamHI
5016,XhoI
4567,HIndII
NcoI,484
EcoRI,785
BamHI,1035
SmaI,1041
PstI,1047
EcoRI,1053
HIndII,1080
PstI,1126
T7 P
attR
small t & polyA
cam
'f1
[kan]
CMVProd
5026 bps
loxSP6 P
CMV P
NcoI,1477
3654,SmaI
tetOP
3380,XhoI
lac I
lacUV5 P
ori

Figure 4F

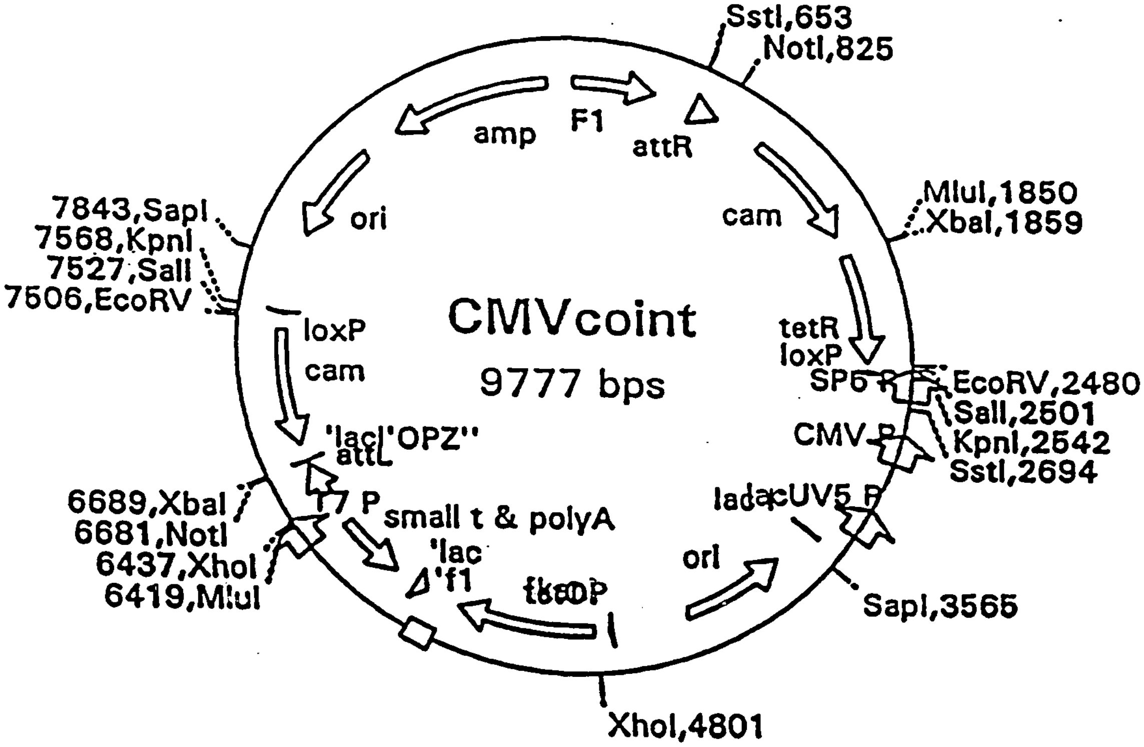

SstI,653
NotI,825
amp
F1
attR
cam
ori
MluI,1850
XbaI,1859
7843,SapI
7568,KpnI
7527,SalI
7506,EcoRV
CMVcoint
9777 bps
tetR
loxP
loxP
cam
SP6 P
EcoRV,2480
SalI,2501
KpnI,2542
SstI,2694
CMV P
'lacI'OPZ"
attL
lacUV5 P
6689,XbaI
6681,NotI
6437,XhoI
6419,MluI
T7 P
small t & polyA
'lac
'f1
tacOP
ori
SapI,3565
XhoI,4801

Figure 5A

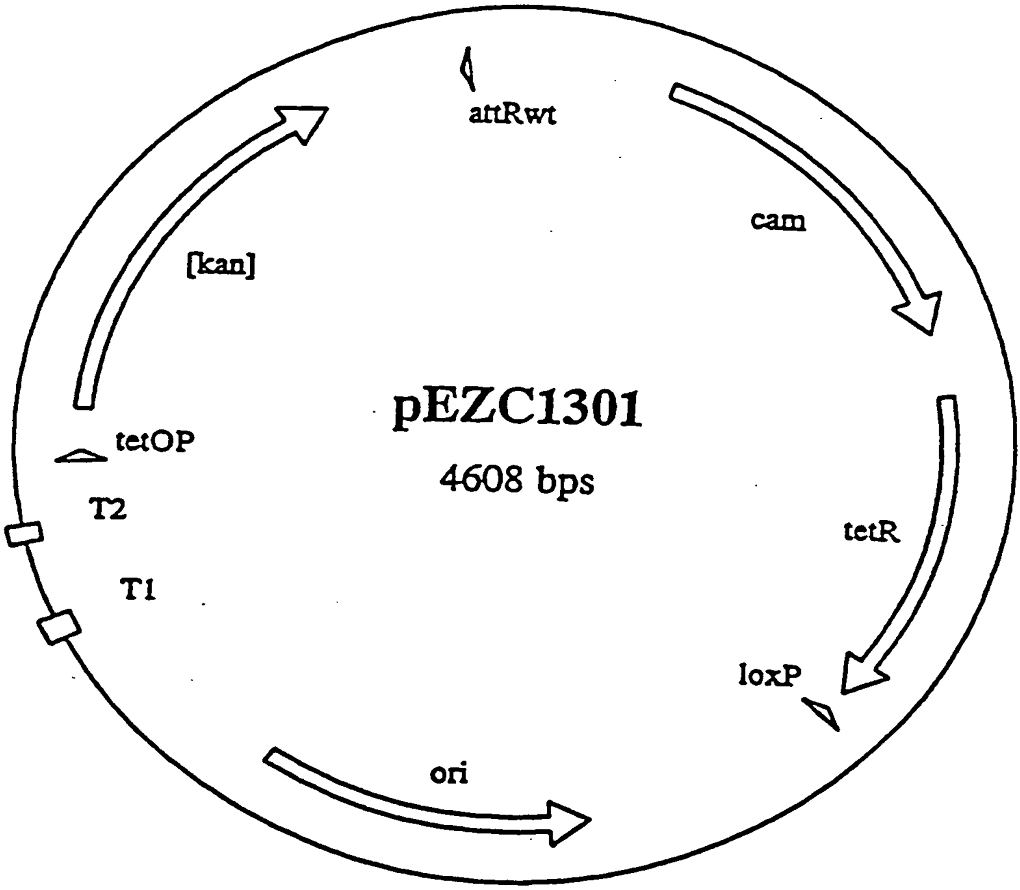


Figure 5B

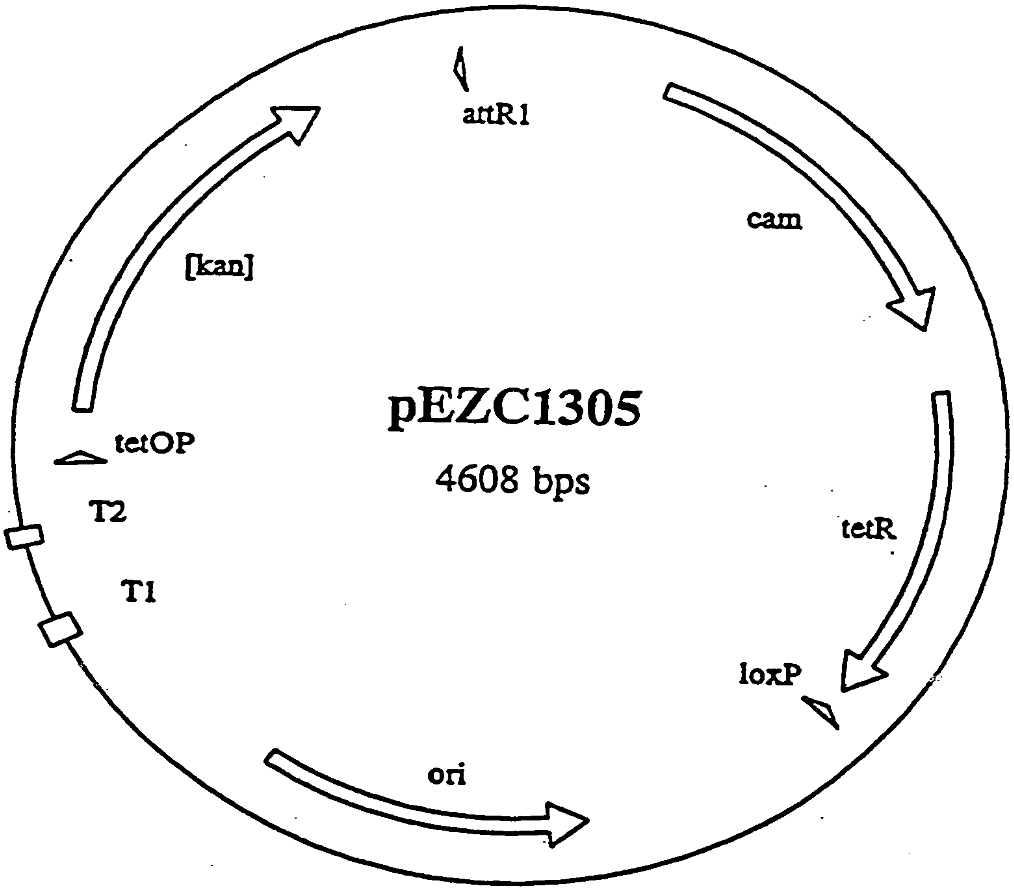


Figure 5C

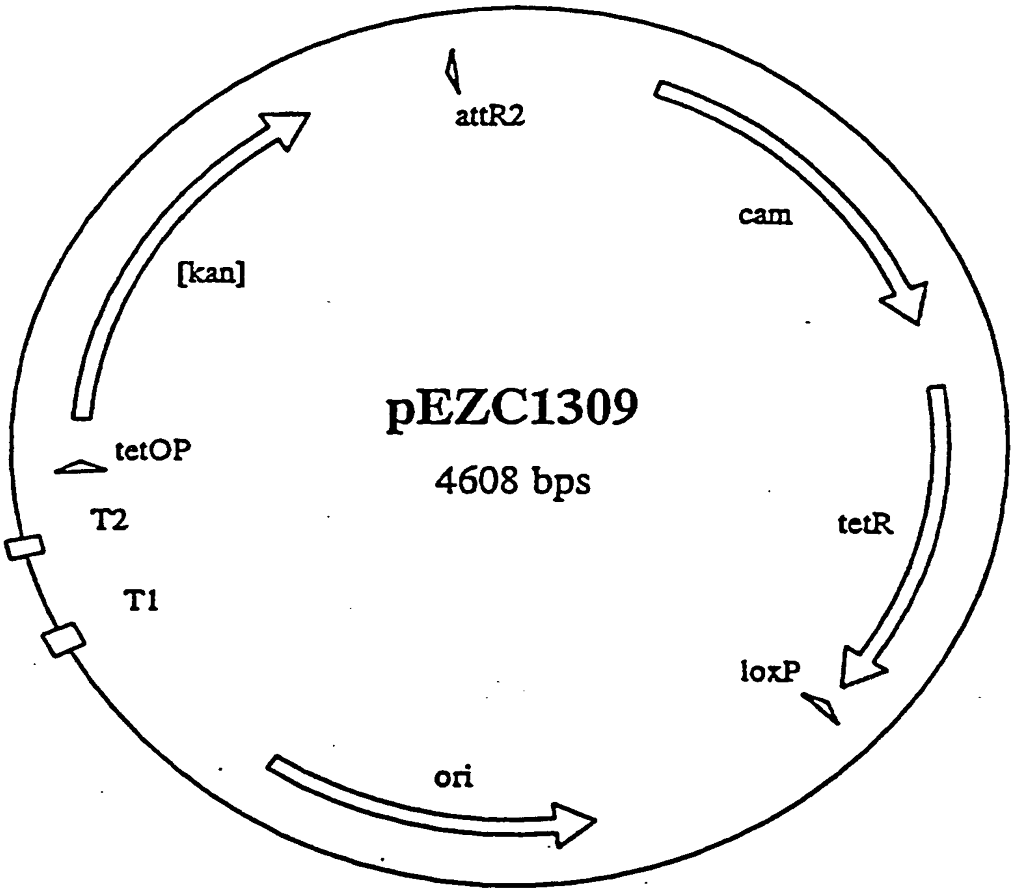


Figure 5D

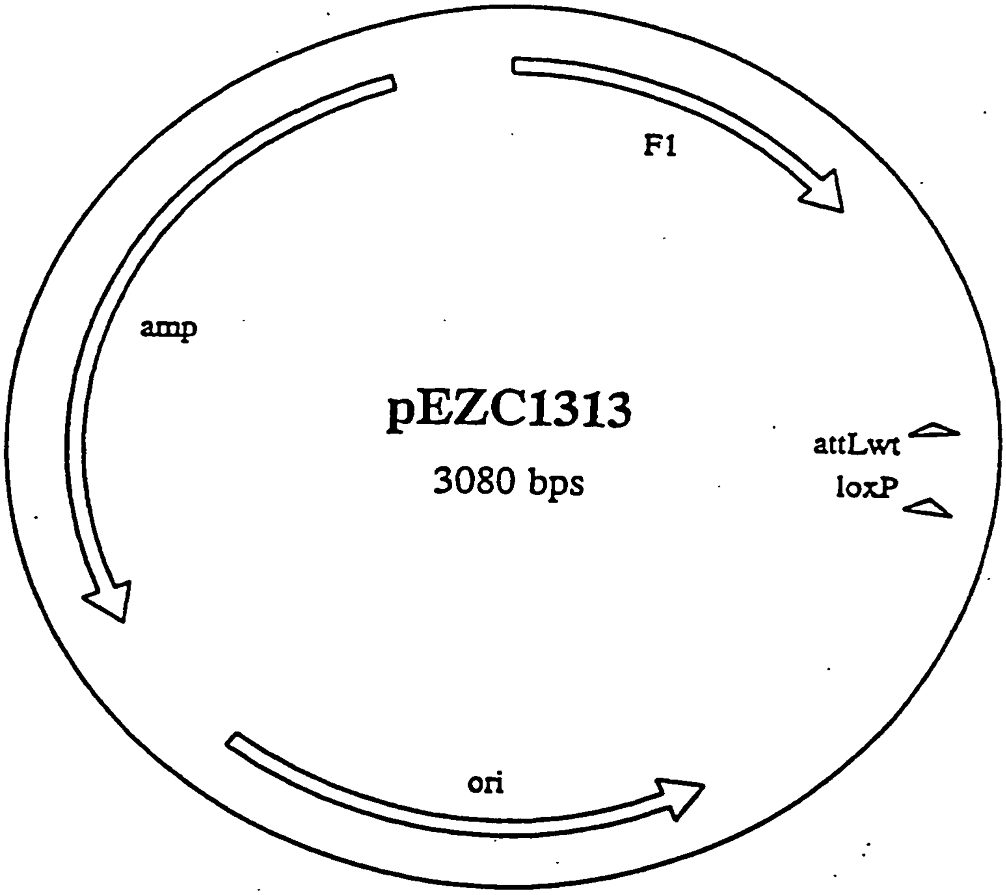


Figure 5E

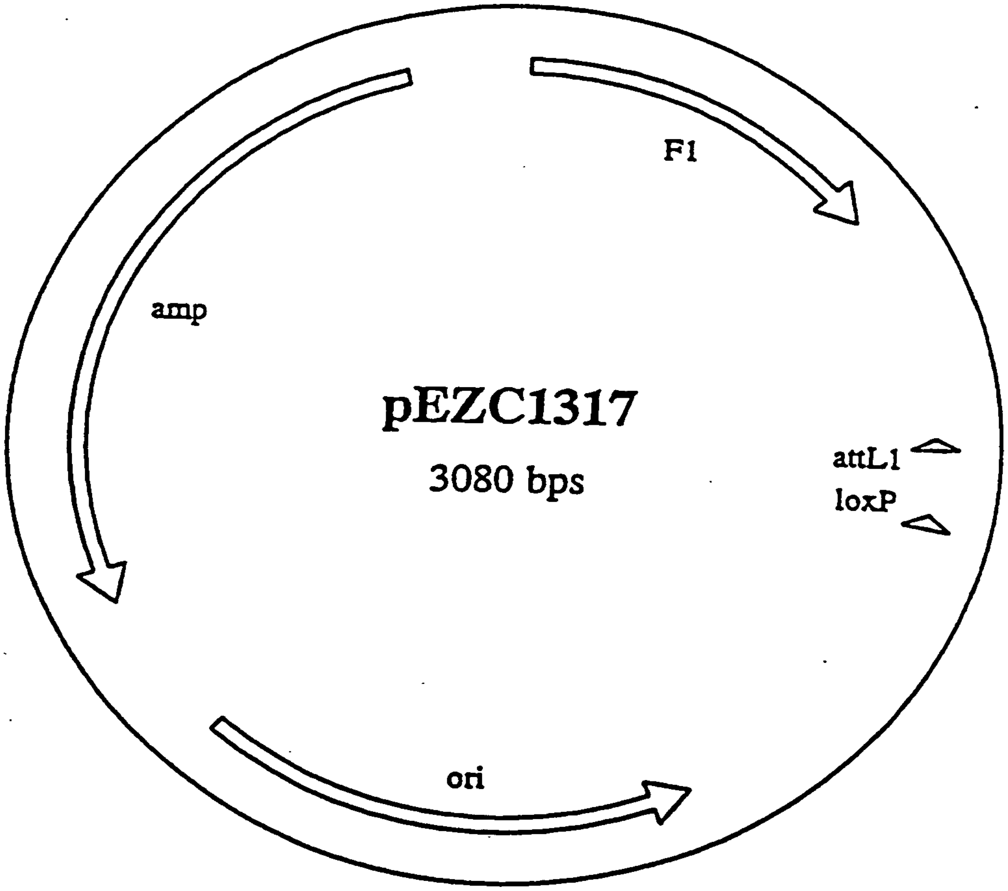


Figure 5F

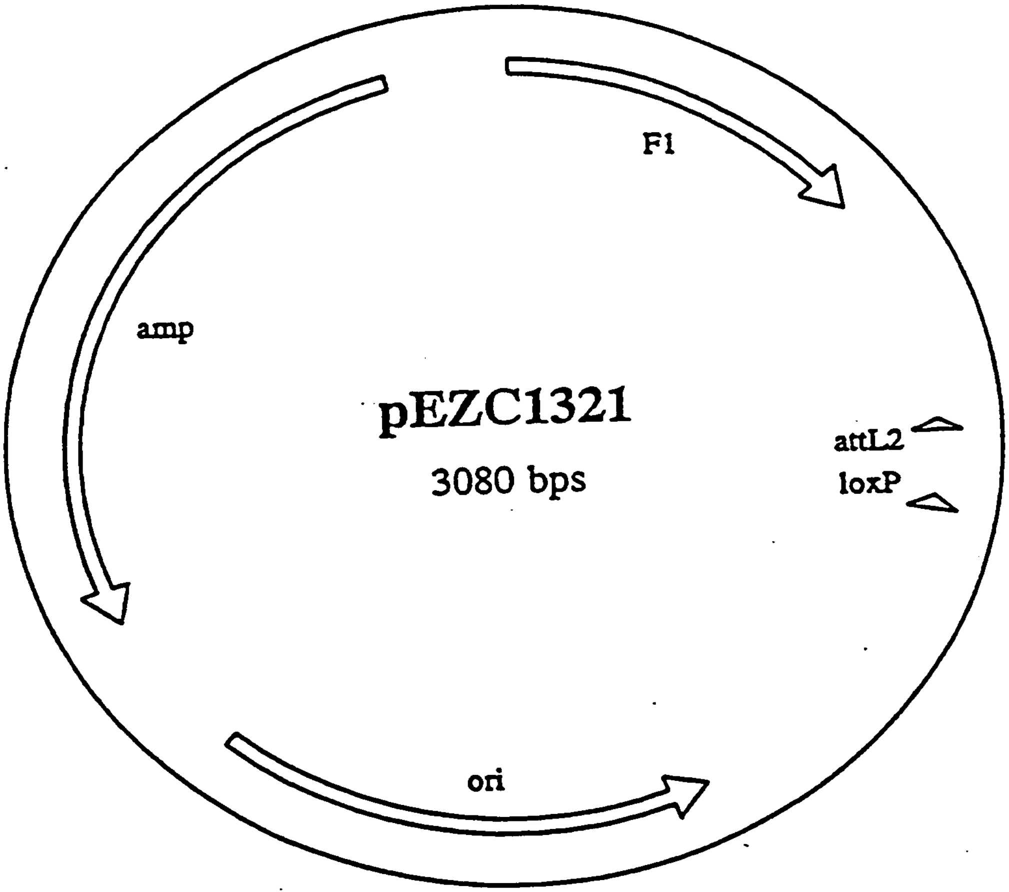


Figure 5G

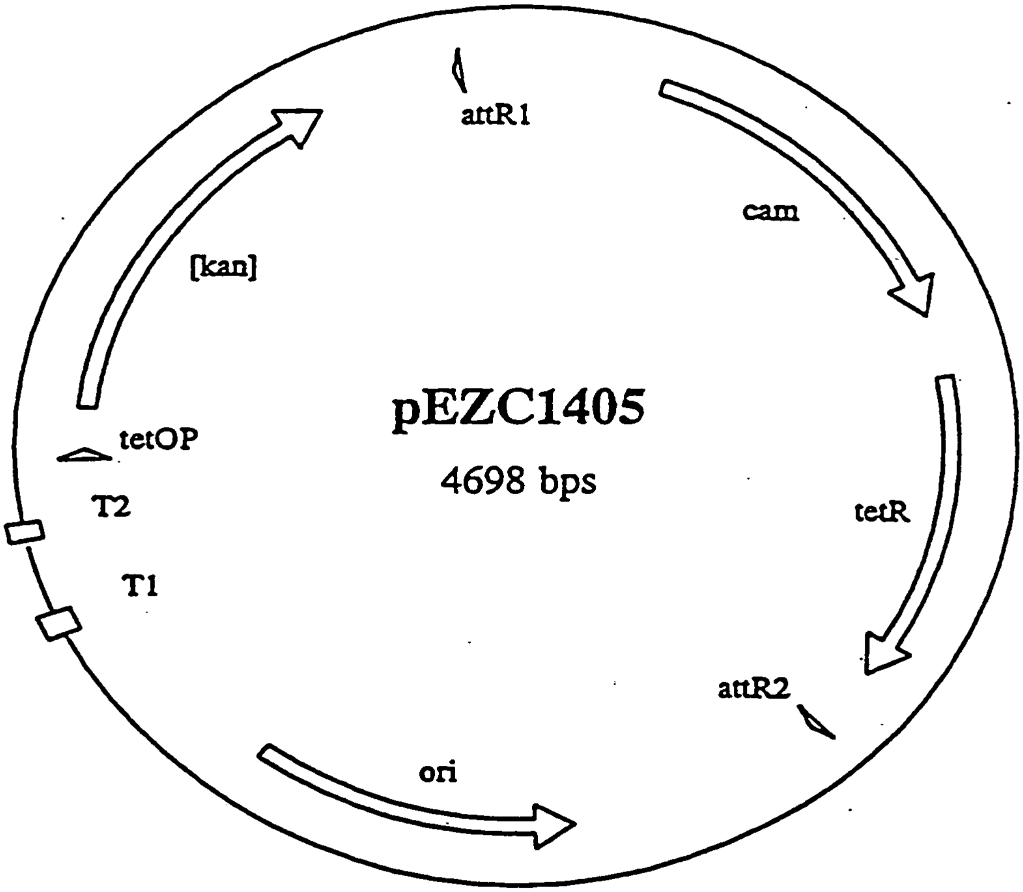


Figure 5H

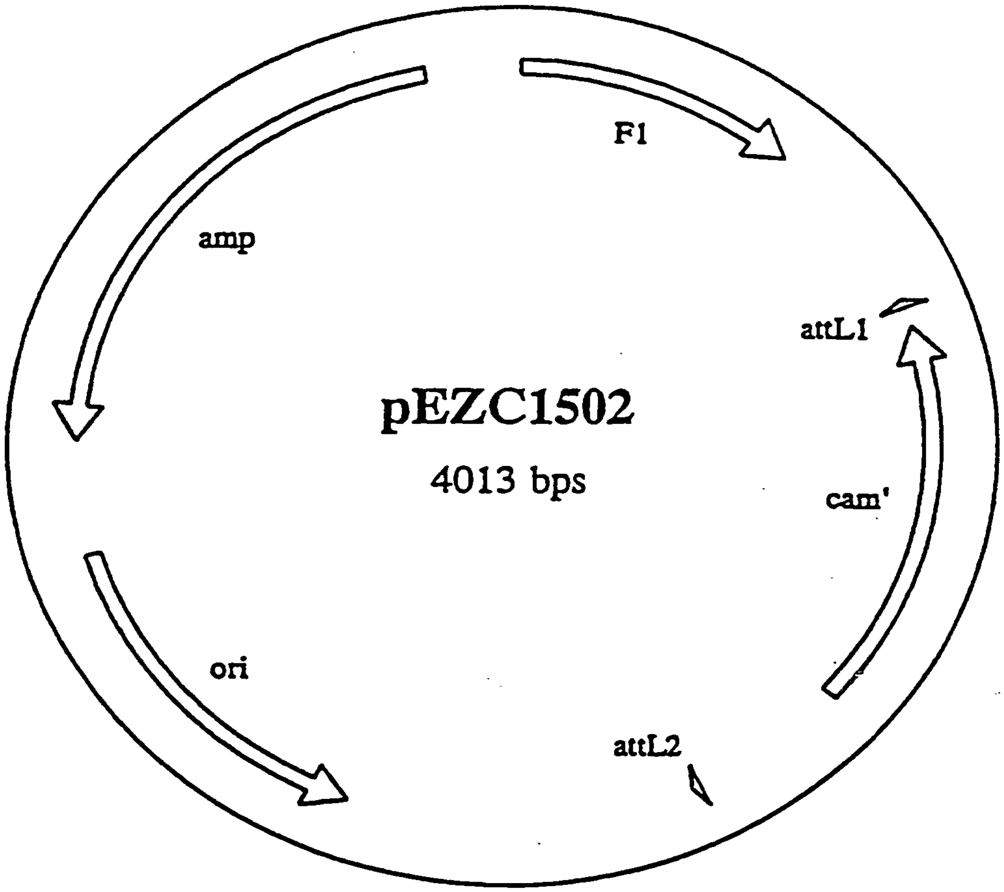


Figure 6A

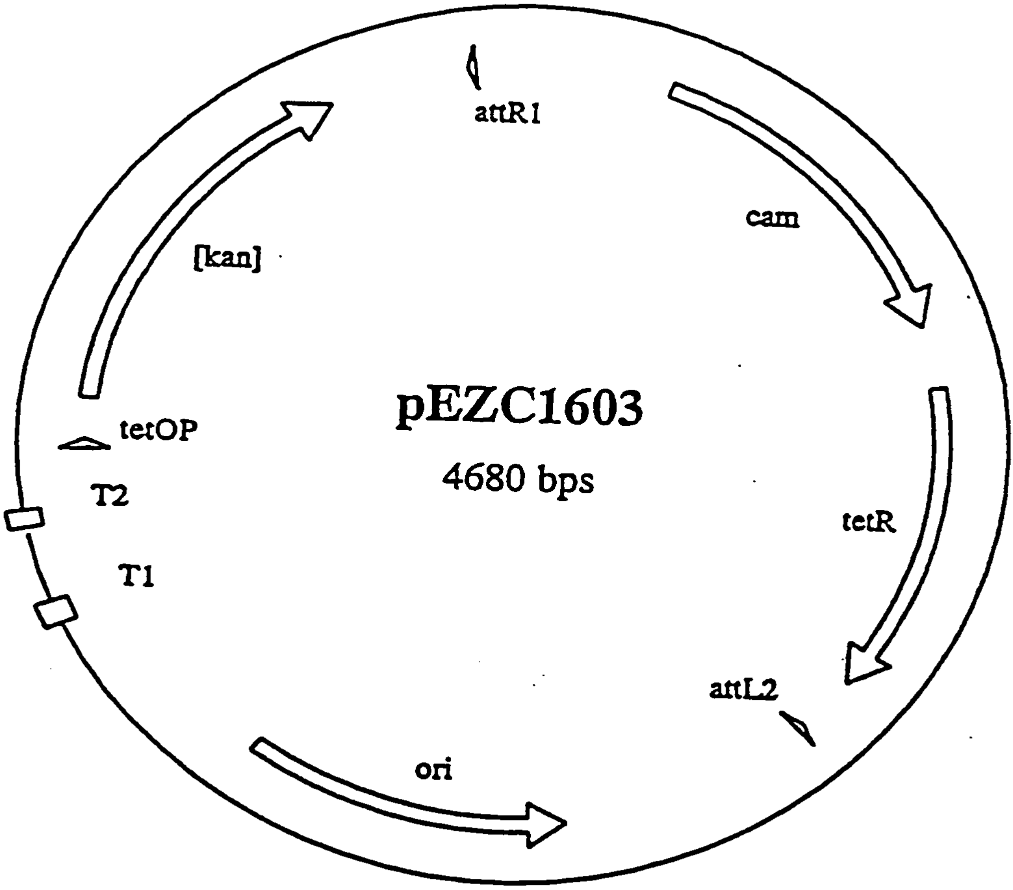


Figure 6B

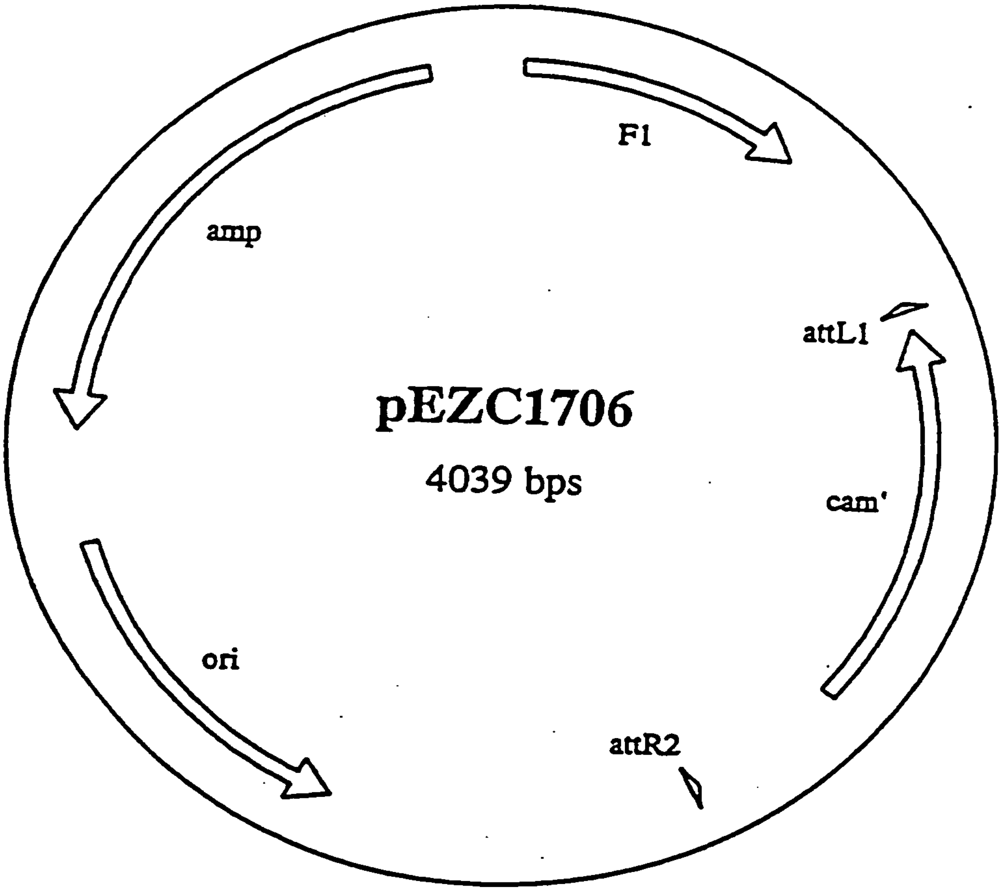


Figure 7A

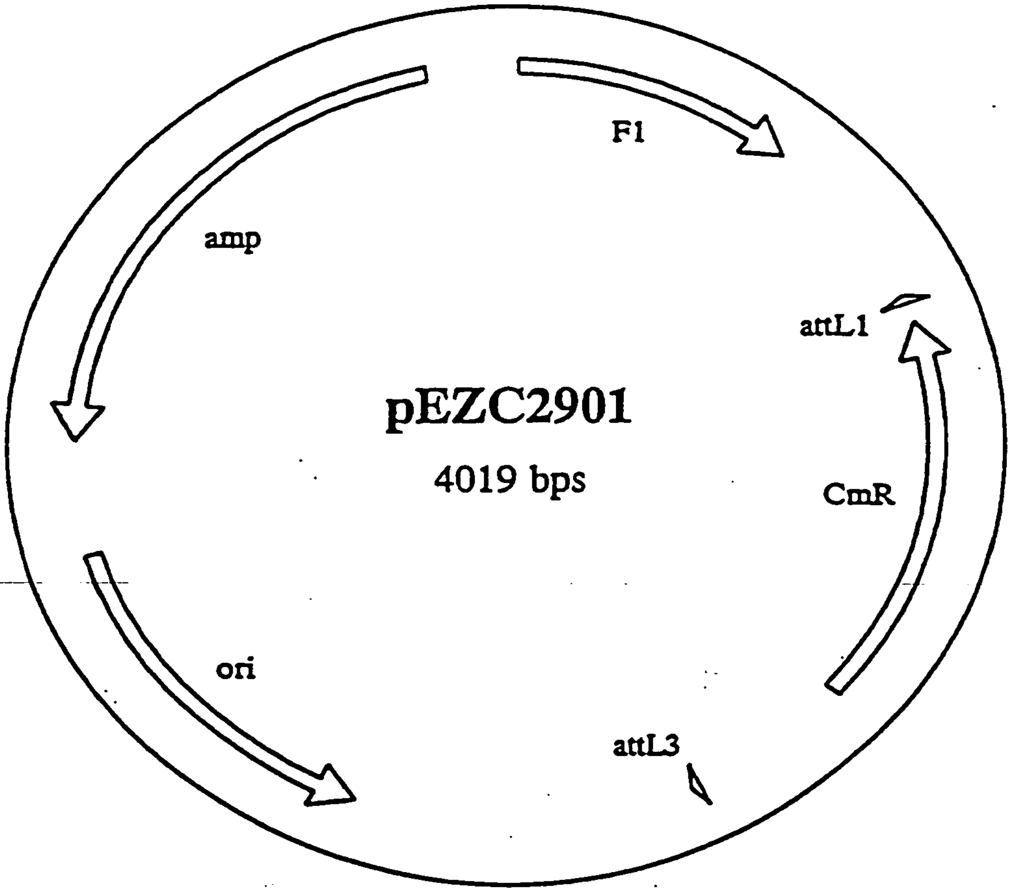


Figure 7B

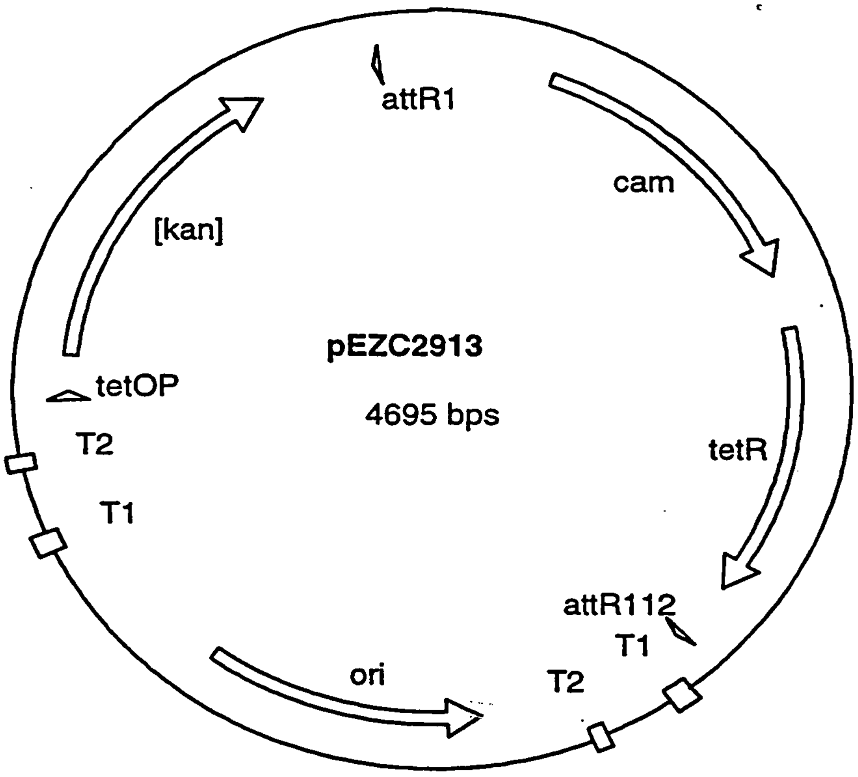

attR1
cam
[kan]
pEZC2913
4695 bps
tetOP
T2
T1
tetR
attR112
T1
T2
ori

Figure 7C

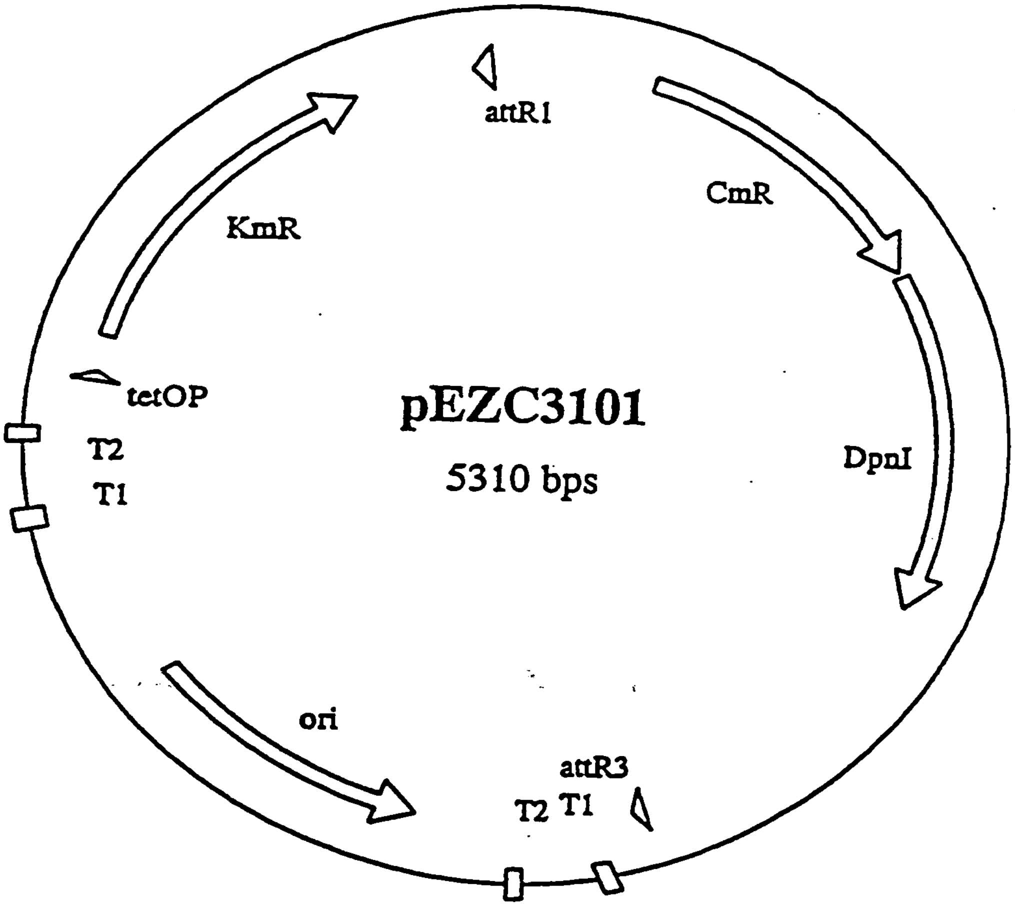

attR1
KmR
CmR
tetOP
pEZC3101
5310 bps
T2
T1
DpnI
ori
attR3
T2
T1

Figure 7D

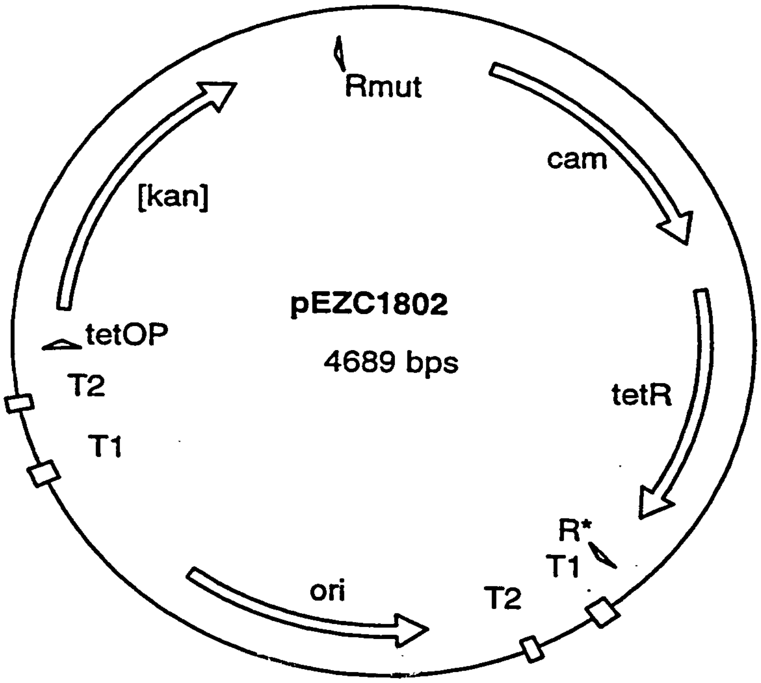


Figure 8A

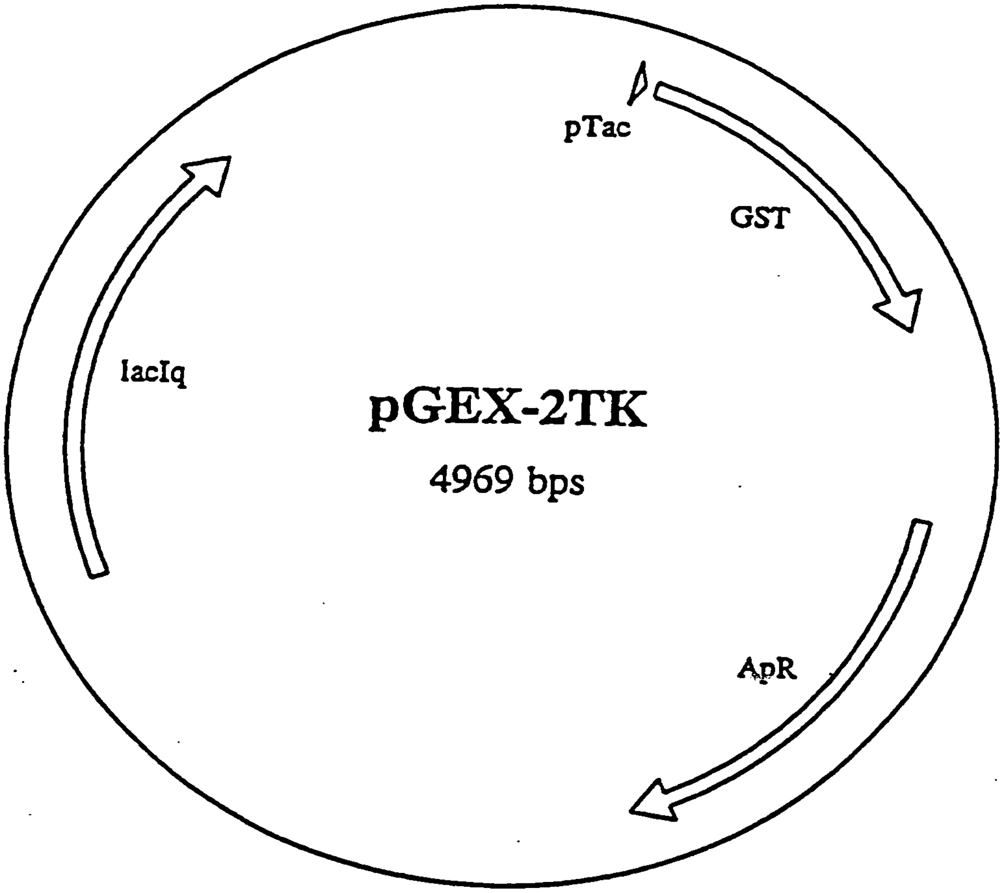


Figure 8B

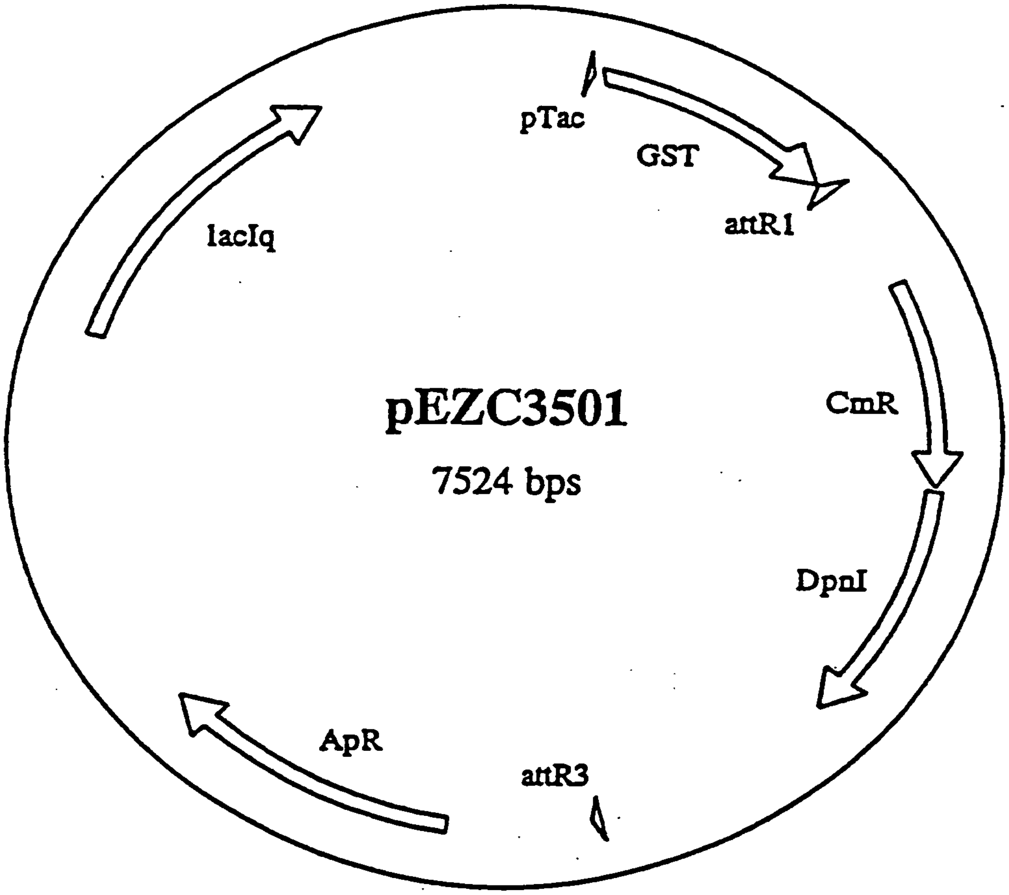


Figure 8C

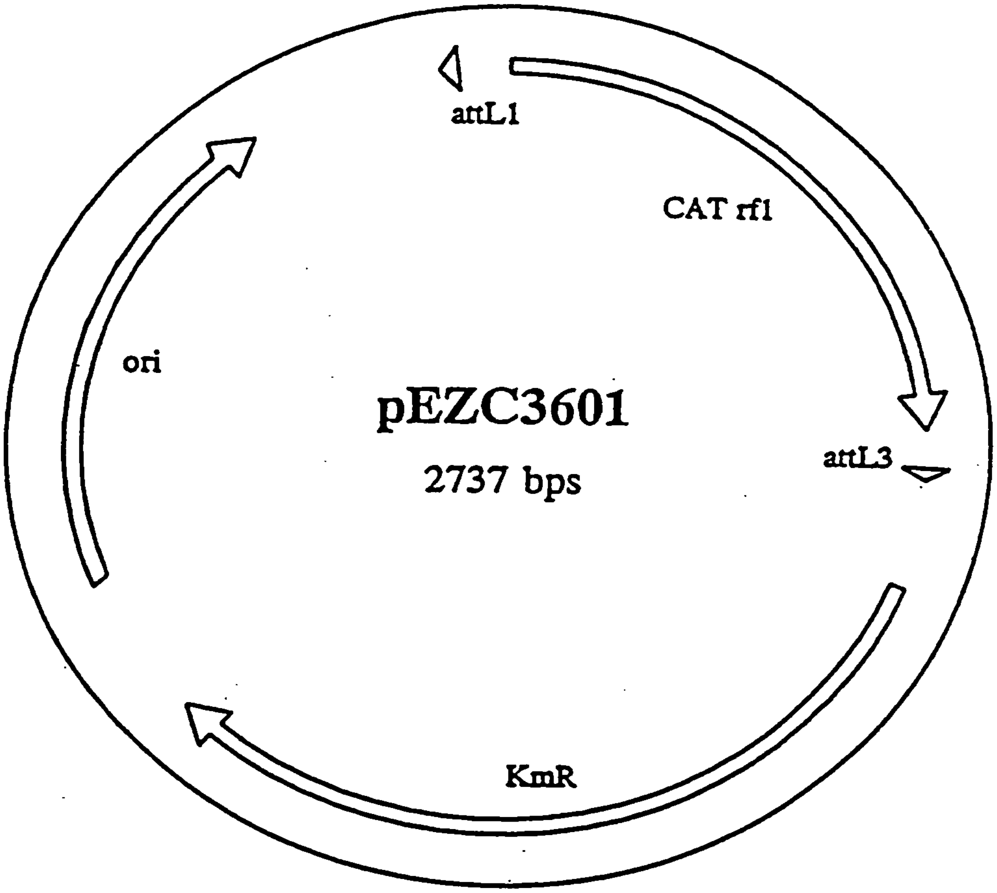


Figure 8D

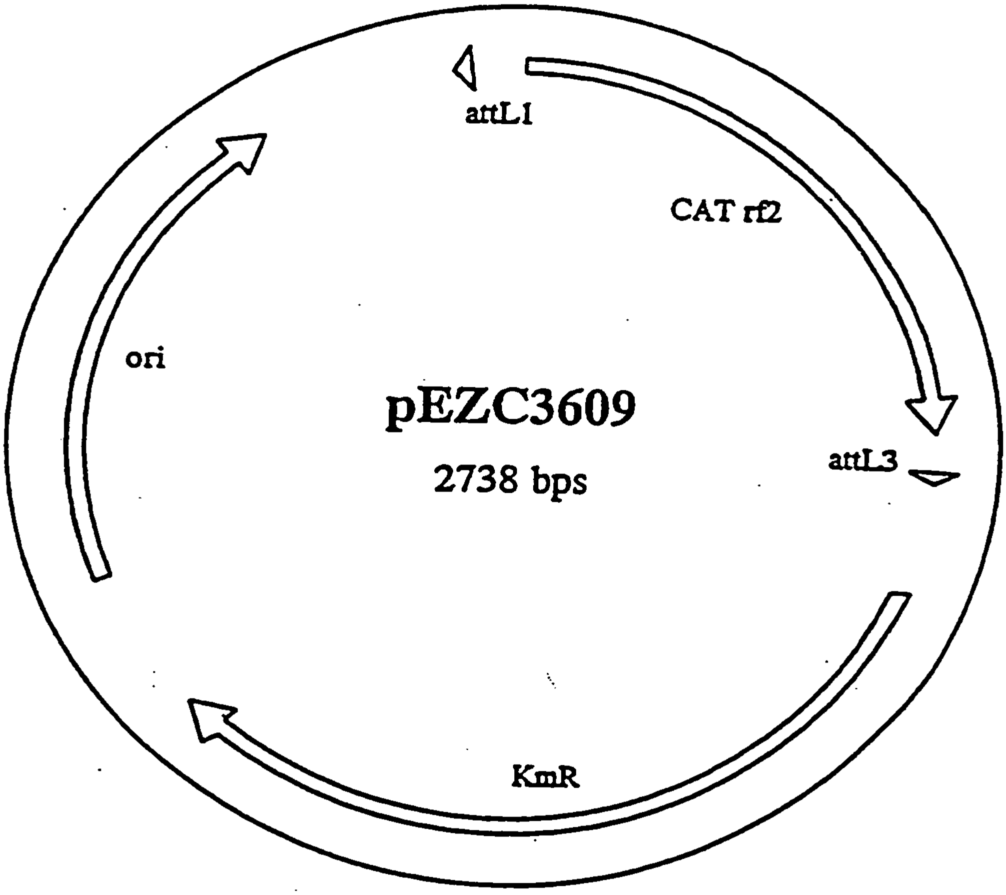


Figure 8E

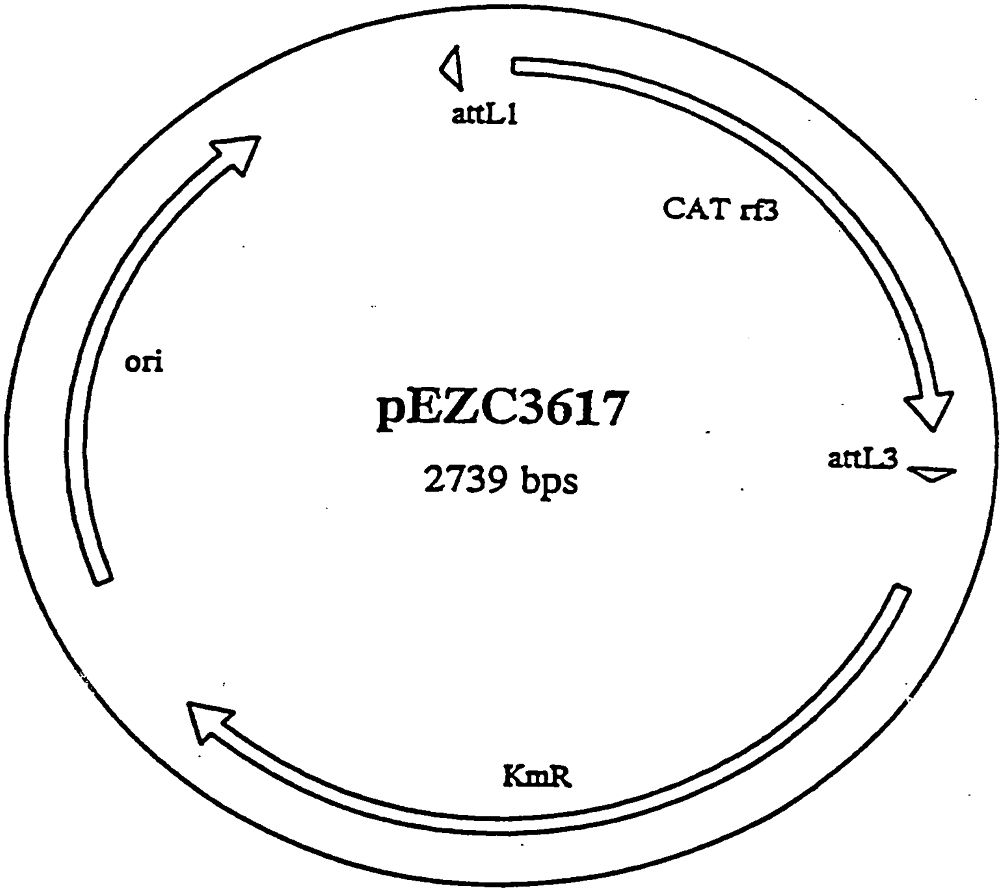


Figure 8F

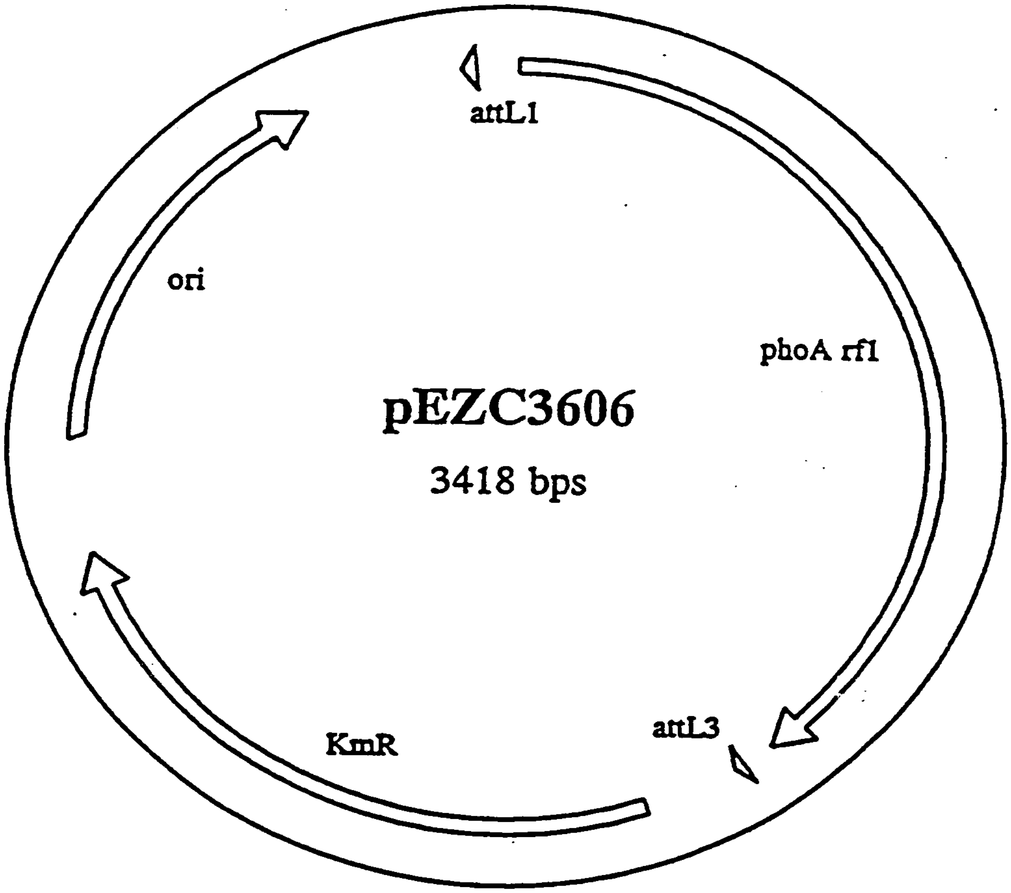


Figure 8G

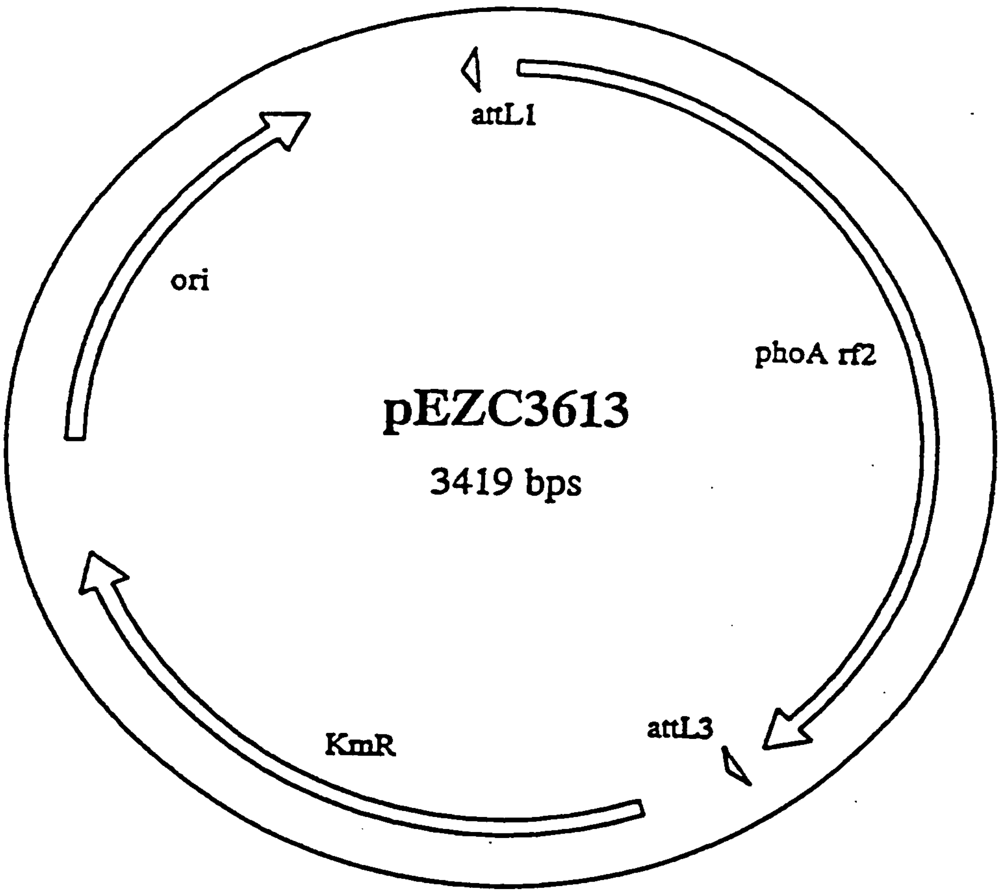


Figure 8H

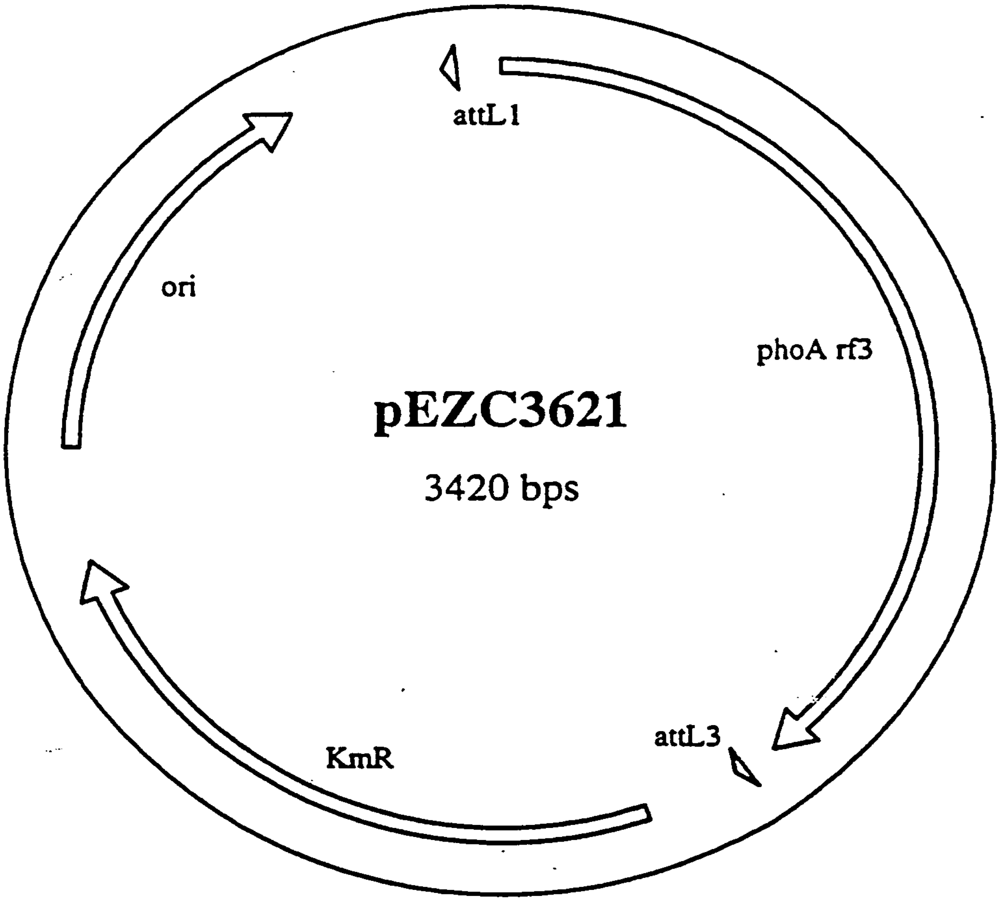


Figure 8I

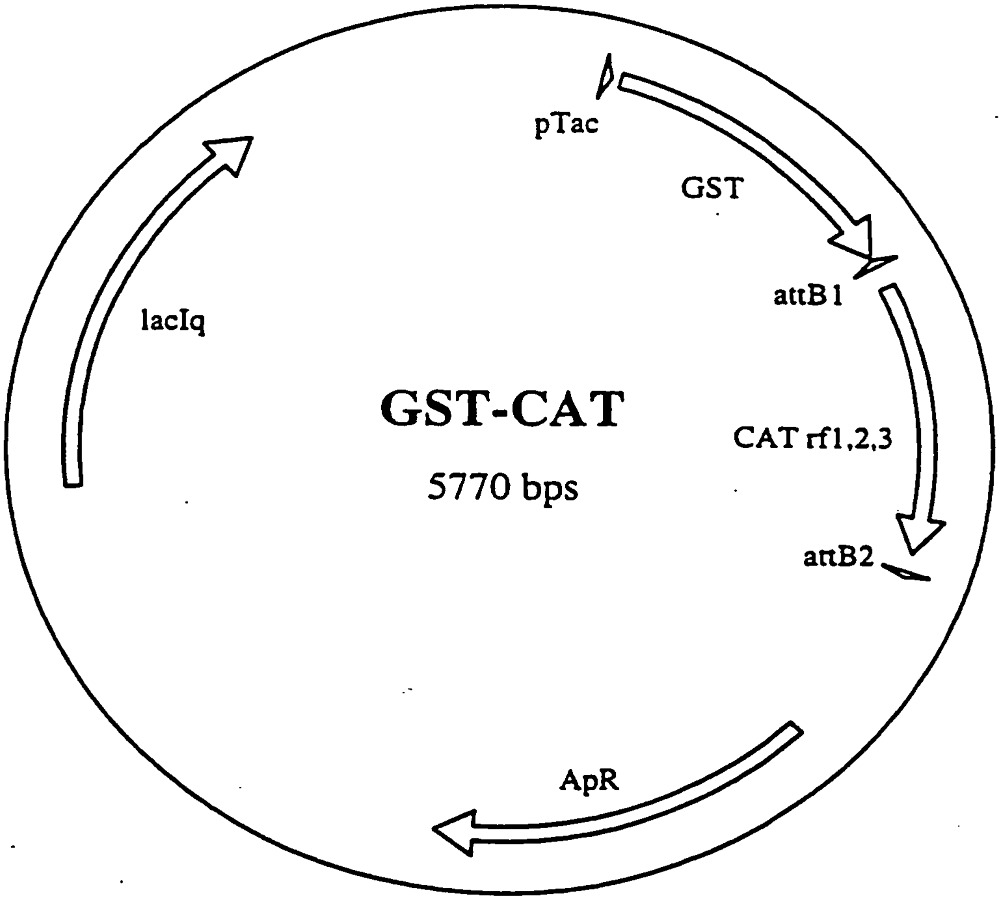


Figure 8J

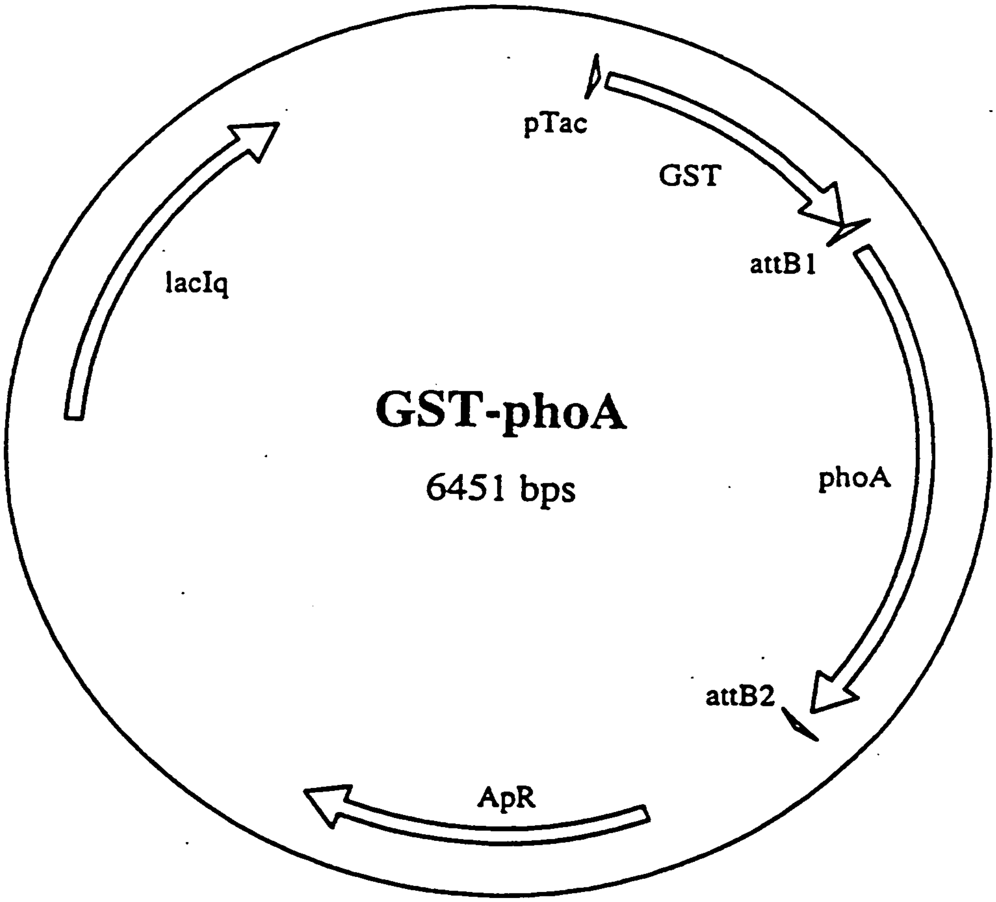


Figure 8K

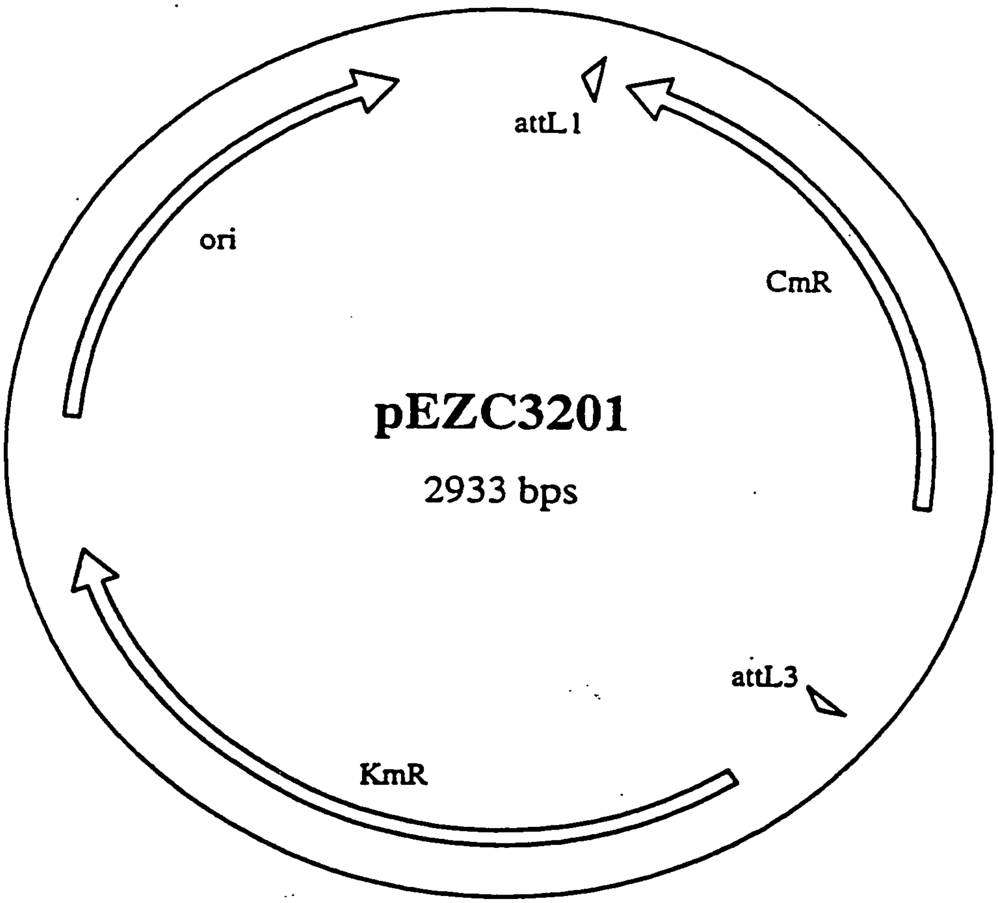
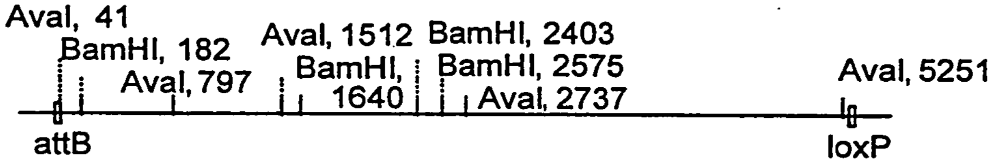


Figure 9A



5.2kbPCRprod (5327 bps)

Figure 9B

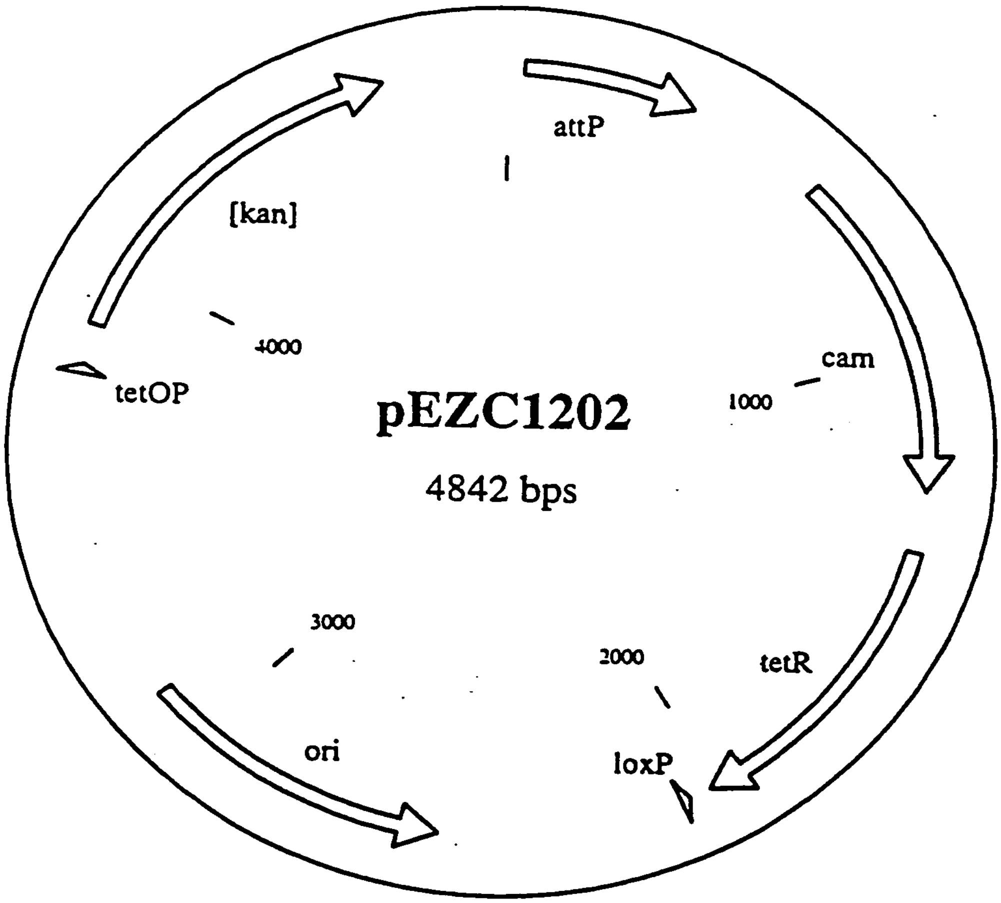
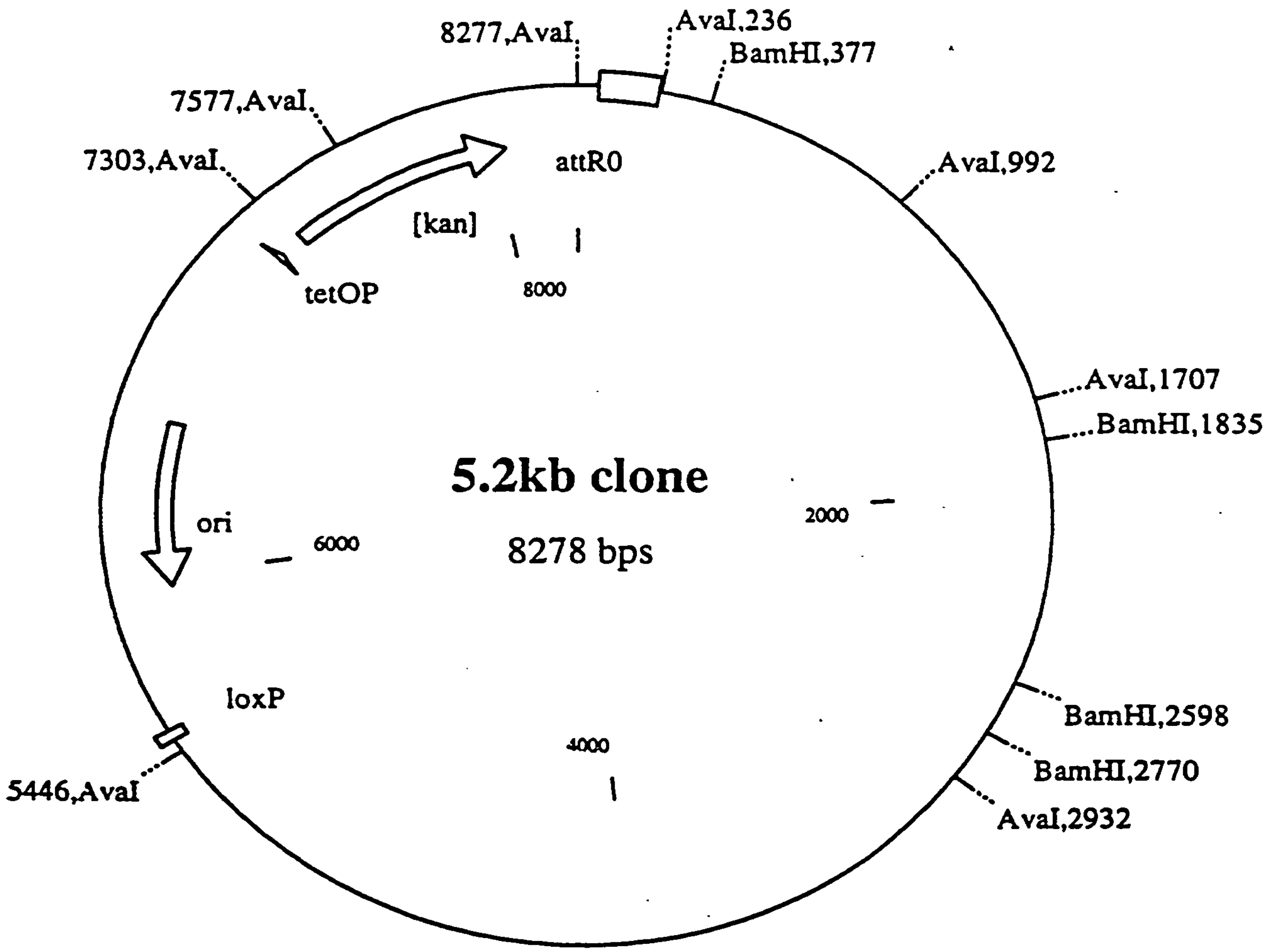

attP
[kan]
cam
1000
4000
tetOP
pEZC1202
4842 bps
3000
2000
tetR
ori
loxP

Figure 9C


8277,AvaI
AvaI,236
BamHI,377
7577,AvaI
7303,AvaI
attR0
AvaI,992
[kan]
tetOP
8000
AvaI,1707
BamHI,1835
5.2kb clone
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ori
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2000
loxP
BamHI,2598
4000
BamHI,2770
5446,AvaI
AvaI,2932

Figure 10A

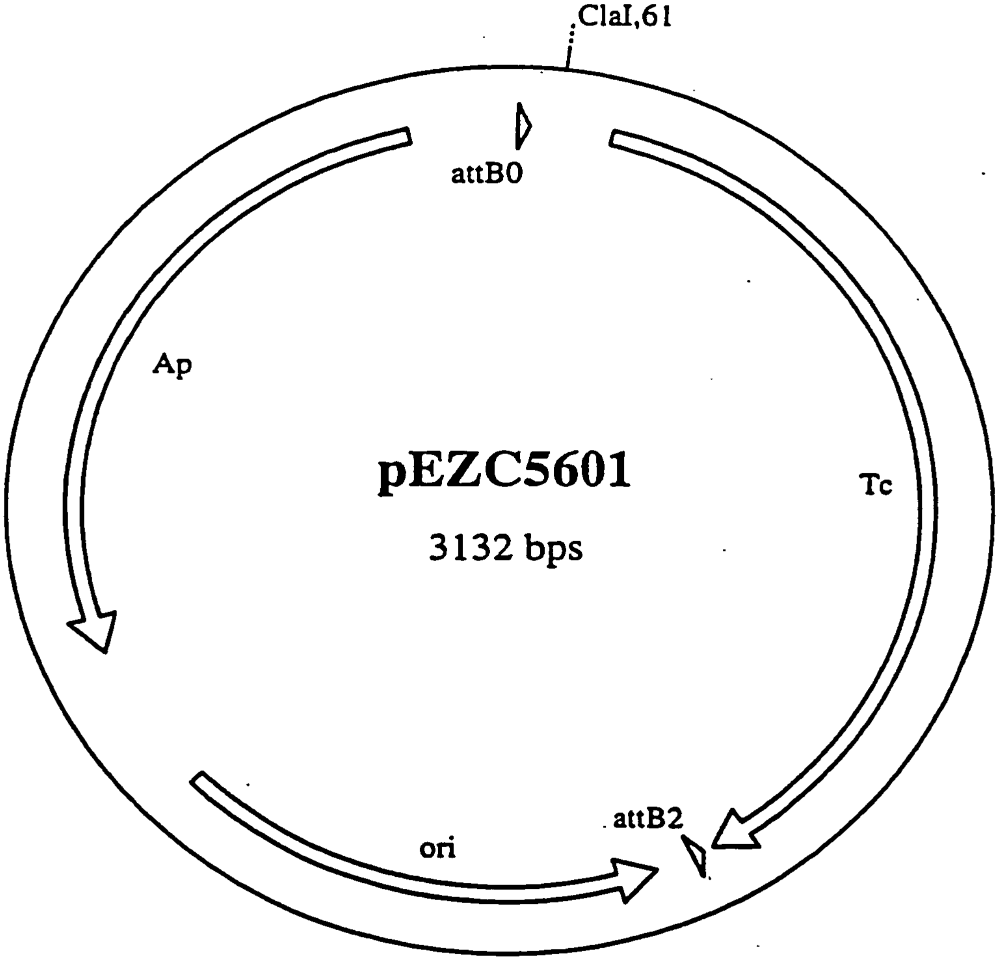


Figure 10B

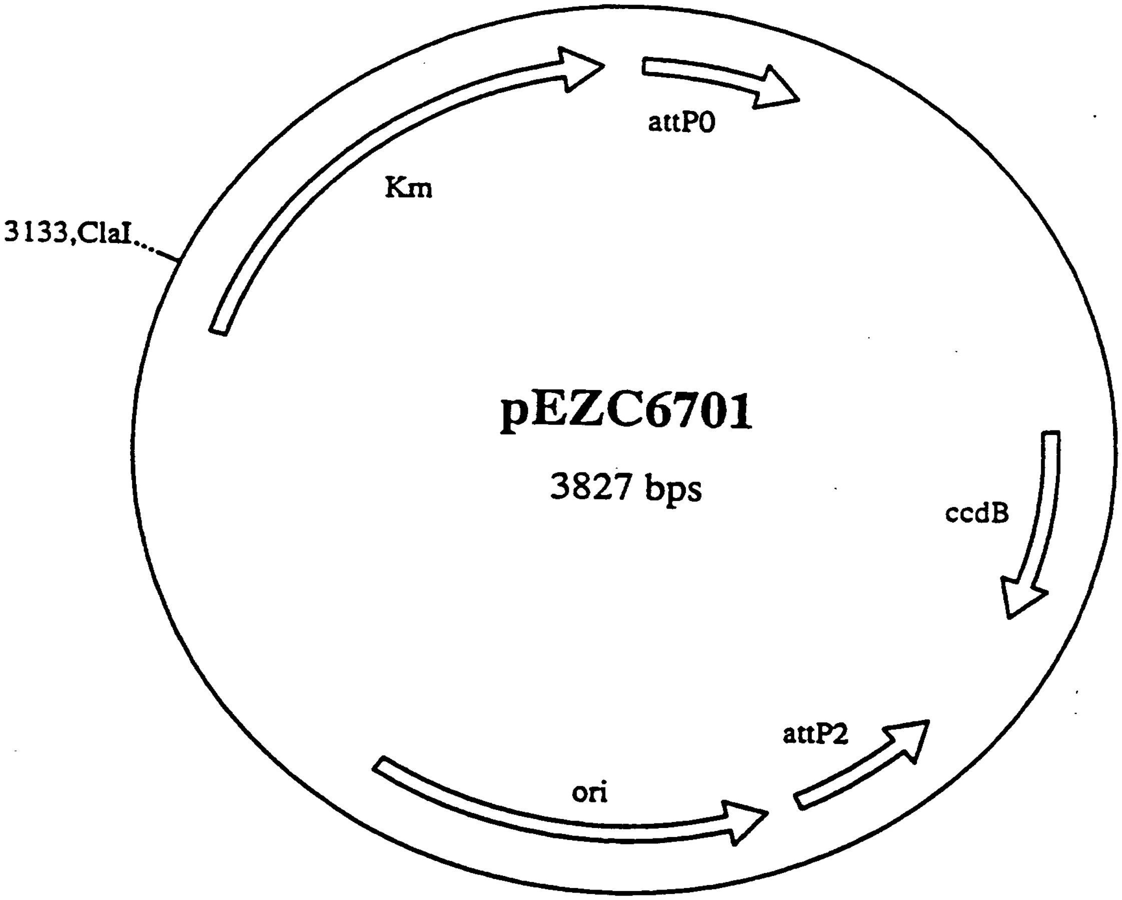


Figure 10C

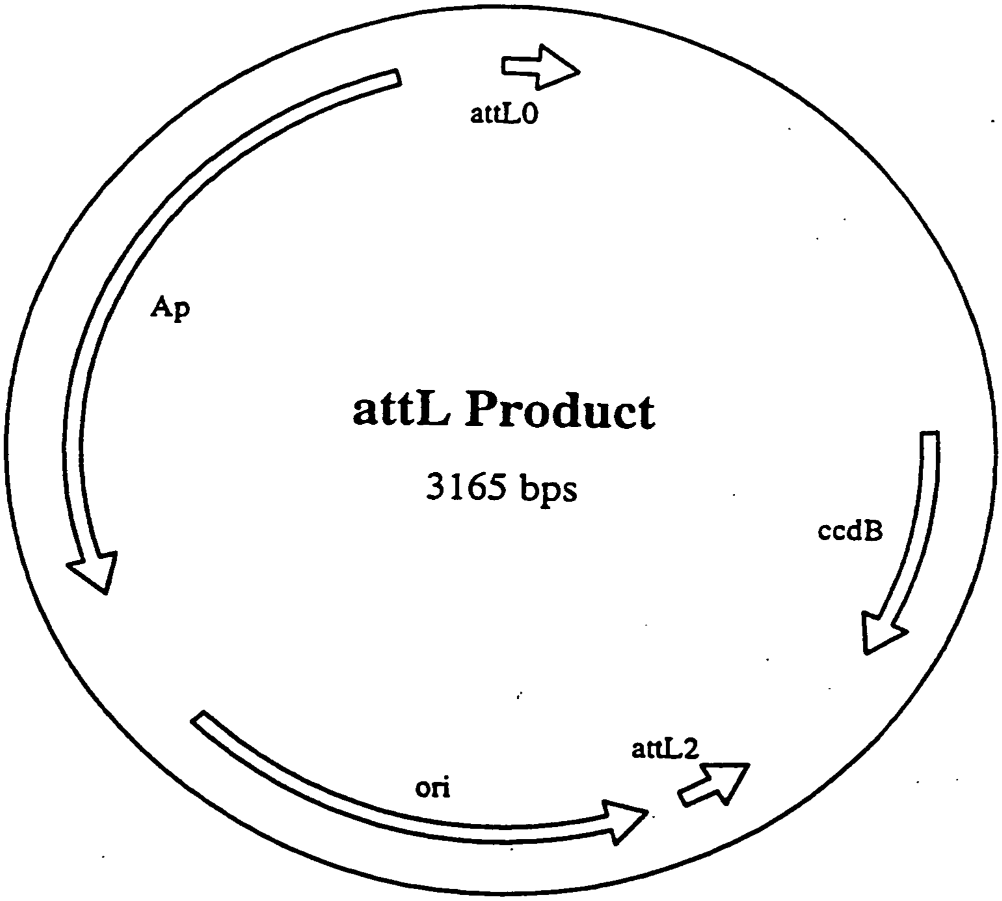


Figure 10D

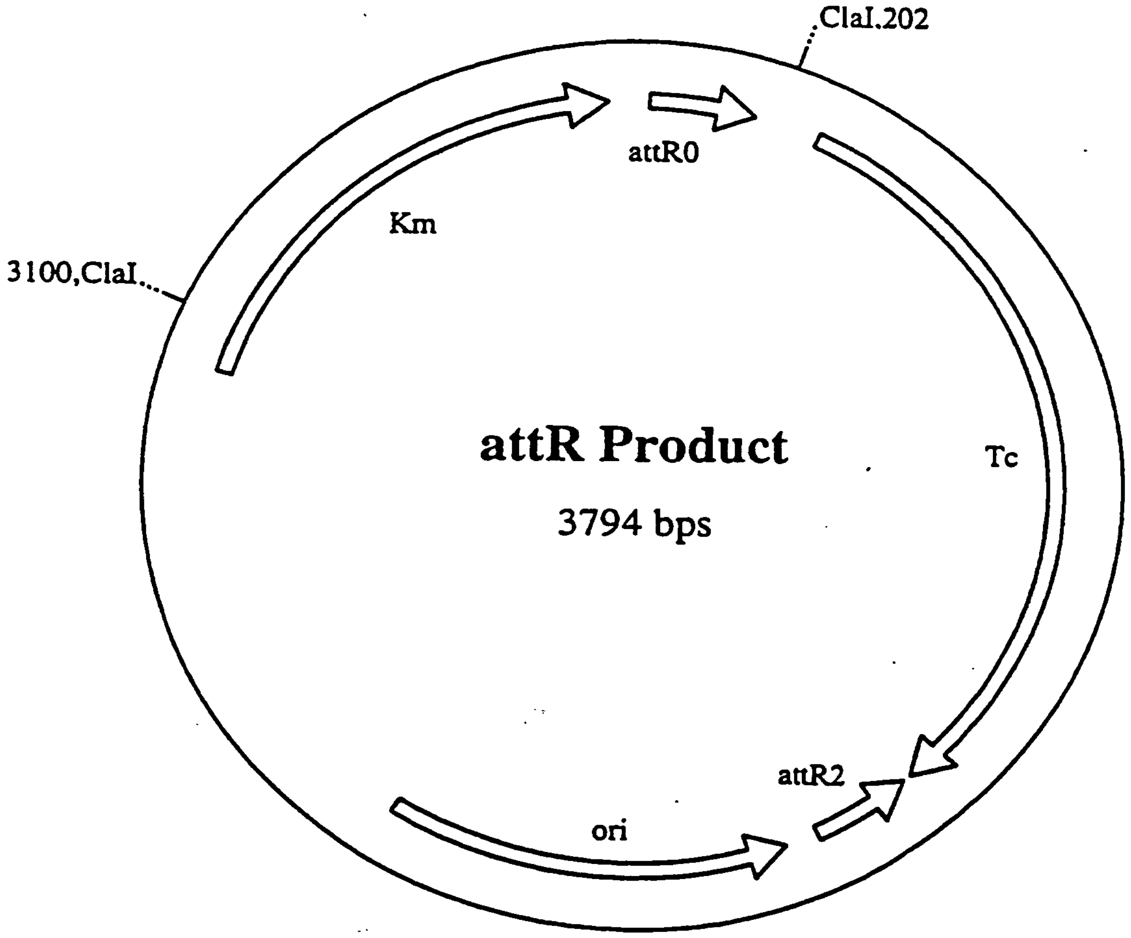

ClaI.202
attR0
Km
3100,ClaI
attR Product
3794 bps
Tc
attR2
ori

Figure 11A

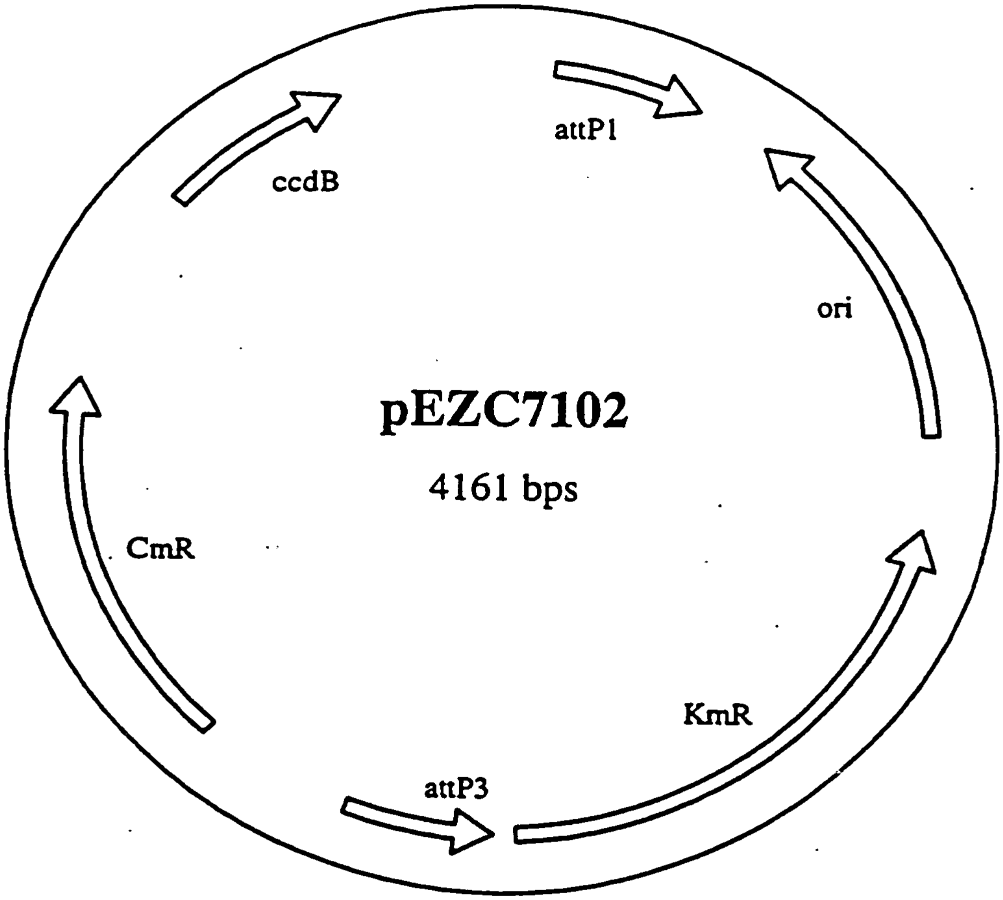


Figure 11B

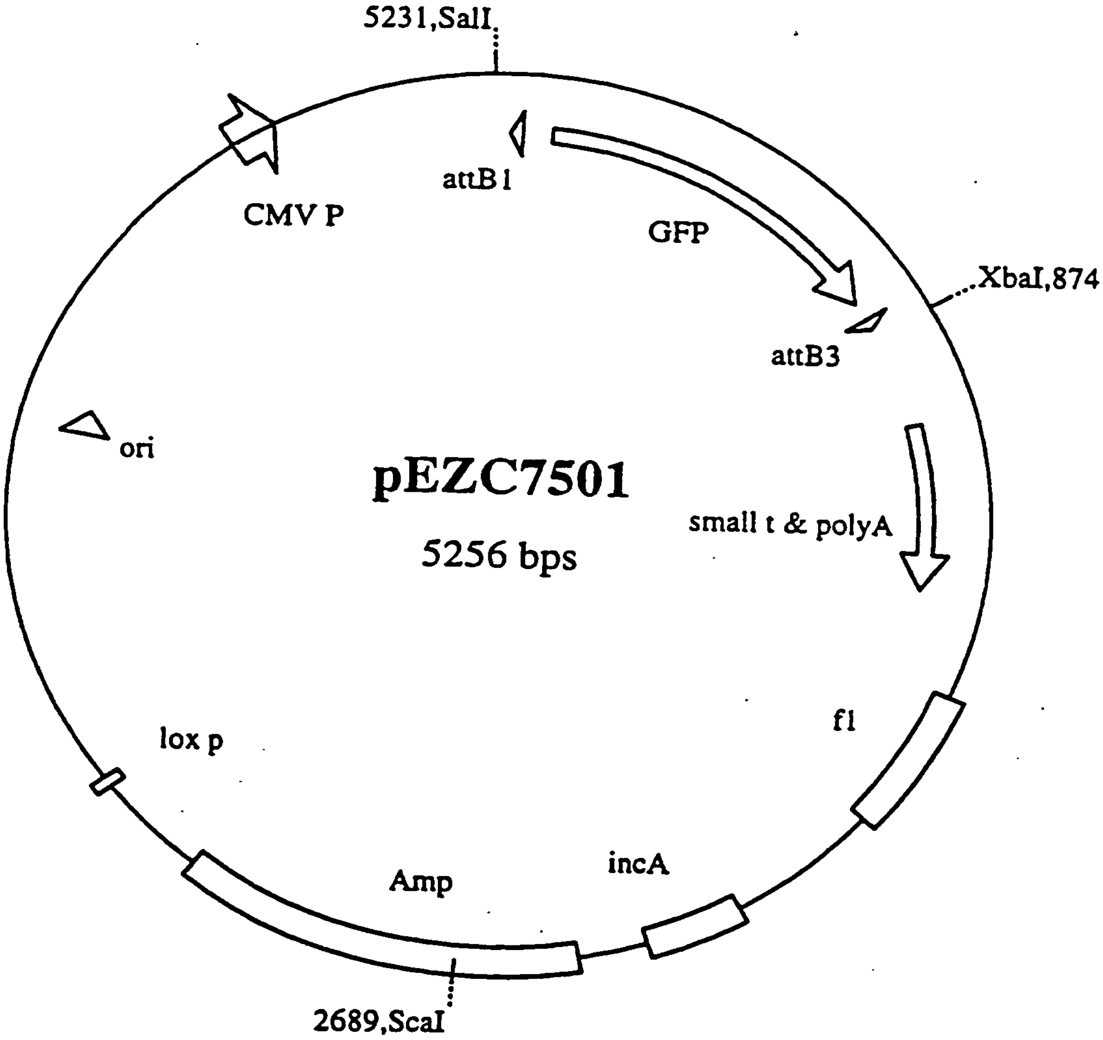

5231,SalI
CMV P
attB1
GFP
XbaI,874
attB3
ori
pEZC7501
5256 bps
small t & polyA
f1
lox p
incA
Amp
2689,ScaI

Figure 11C

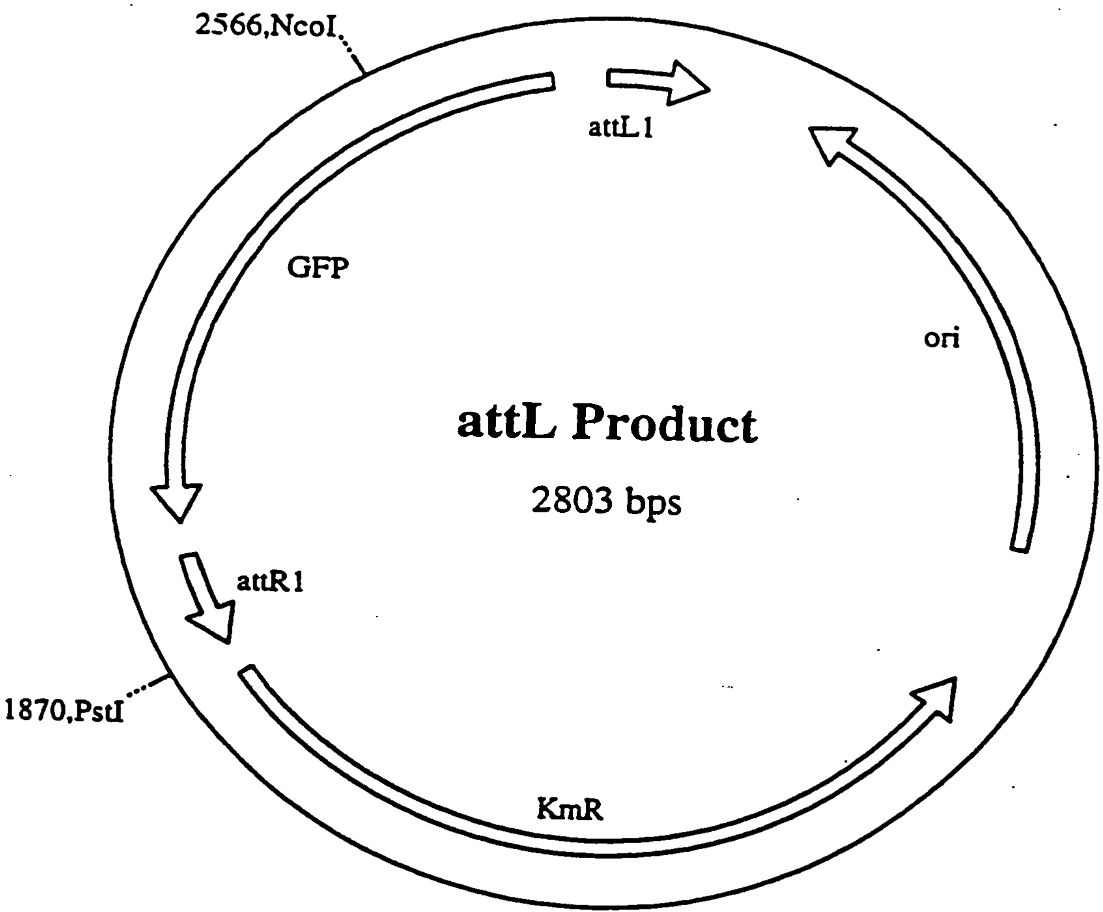
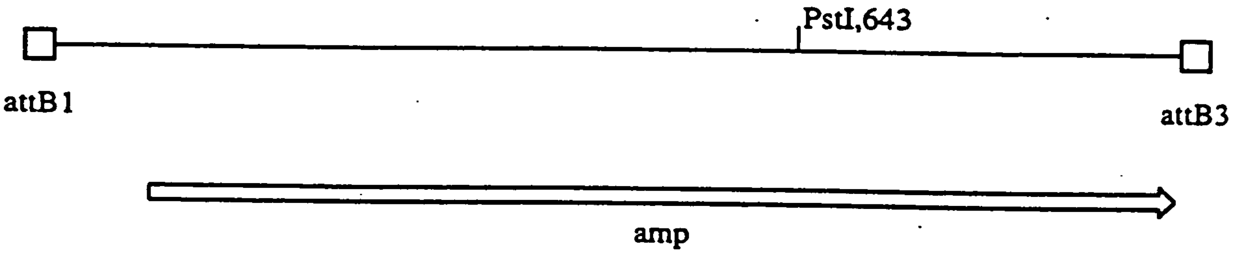
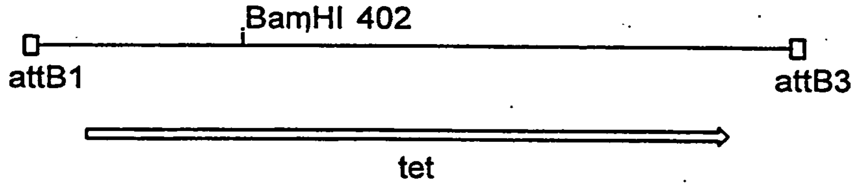

2566,NcoI
attL1
GFP
ori
attL Product
2803 bps
attR1
1870,PstI
KmR

Figure 12A



attB1AMPattB3 (987 bps)

Figure 12B



attB1TETattB3 (1442 bps)

Figure 12C

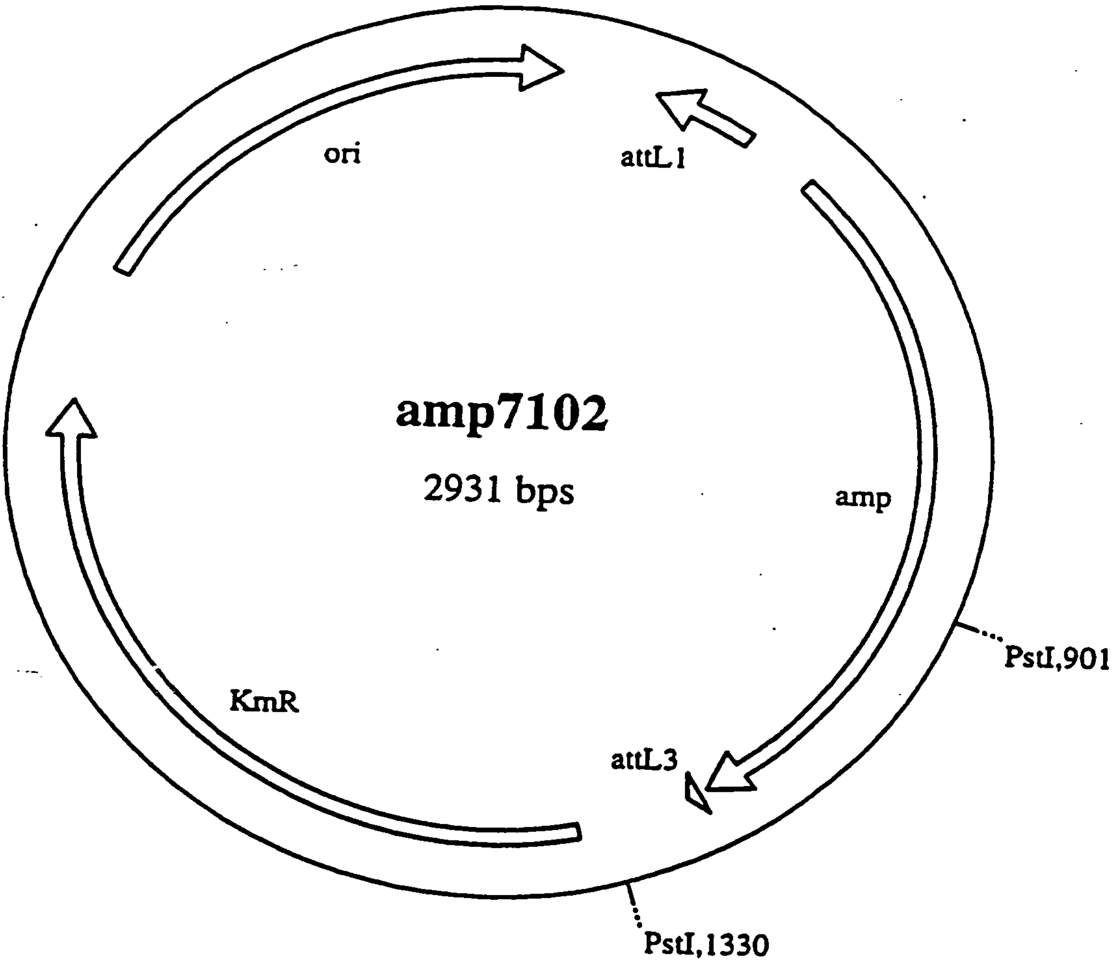


Figure 12D